

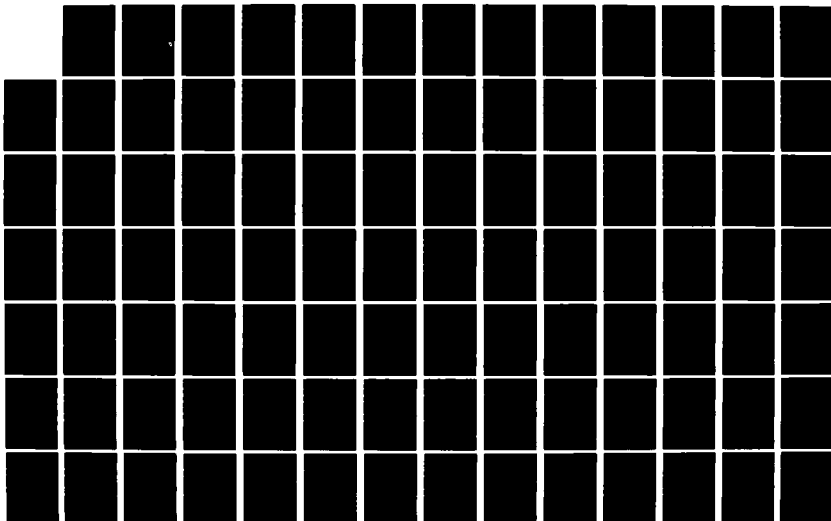
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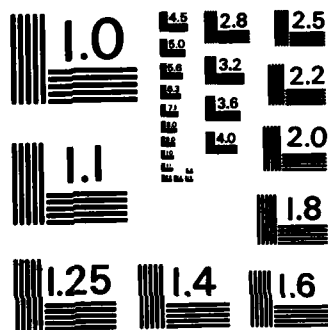
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 82C FIELD 1/2
ARTILLERY SURVEYO. (U) DEFENSE LANGUAGE INST LACKLAND
AFB TX ENGLISH LANGUAGE CENTER. 06 NOV 79

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JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR 82C
MOS
FIELD ARTILLERY SURVEYOR

REFERENCE SOLDIER'S MANUAL DATED

6 November 1979

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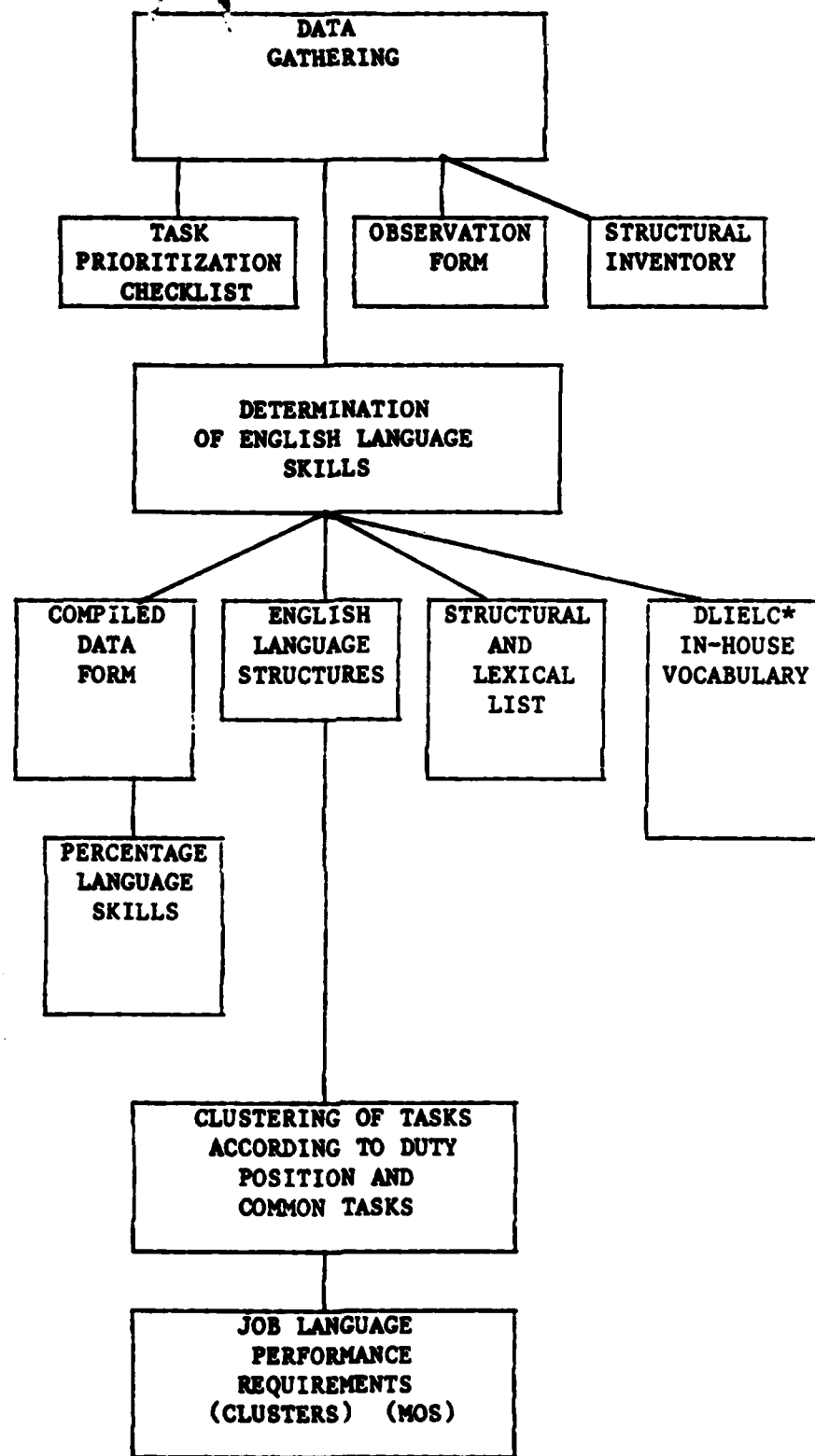


FIGURE 1

*Defense Language Institute English Language Center

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Job Language Performance Requirements (JLPR) study was conducted to determine language tasks the soldier must do in studying/performing job tasks. The language skills (listening, reading, writing, speaking) required to learn each Army job task were identified, conditions studied and standards determined. The data that generated the JLPR is identified.		

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PREFACE

INSTRUCTIONS FOR REVIEW OF JOB LANGUAGE PERFORMANCE REQUIREMENTS

This report is organized in six main sections. Sections I-IV discuss methods, forms and rationale for gathering, organizing and analyzing research data used to develop Job Language Performance Requirements (JLPR). Please look through these sections to get a general understanding of the background underlying the JLPR. Sections V and VI are the major substantive portions of the analysis. They are the results of the analysis and constitute the basis for development of any MOS-oriented English language materials. Section V contains the JLPR by cluster/topic, while Section VI contains the JLPR covering the entire range of clusters/topics.

The appendices, one through eight, contain all the information used to determine the Job Language Performance Requirements. Please write any suggestions or changes directly on the document or attach additional notes, if necessary.

The points covered in the six major sections are supported in greater detail in eight appendices. Below is an overview of these appendices.

Appendix one contains the Task Prioritization Checklist. It was taken to the field to collect the raw data. This form was approved for use by the Department of the Army.

Appendix two contains the Task Inventory Compiled Data Form. It was used to organize data from Unit and AIT respondents.

Appendix three defines the language skills by percentage. This form includes computations of language skills for each task cluster.

Appendix four contains the Observation Form used in the recording of types of listening and speaking skills required, as seen by observers, in the learning and performing of a task. The variety of environmental situations is also included on this form.

Appendix five contains the final list of structural and lexical items found through data gathering and organization.

Appendix six contains the DLIELC in-house vocabulary list. This is a task by task listing of the vocabulary extracted from the Soldier's Manual.

Appendix seven contains the machine-generated vocabulary for this MOS prepared by the United States Army Training and Doctrine Command (TRADOC), Fort Monroe, Virginia.

Appendix eight contains the list of structural and lexical items requisite to this MOS.

Thank you for your cooperation. It is greatly appreciated.

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SECTION I

DATA GATHERING

INTRODUCTION

This section discusses the procedures and forms in the gathering of data used to determine the Job Language Performance Requirements for this MOS.

A

SECTION I: DATA GATHERING

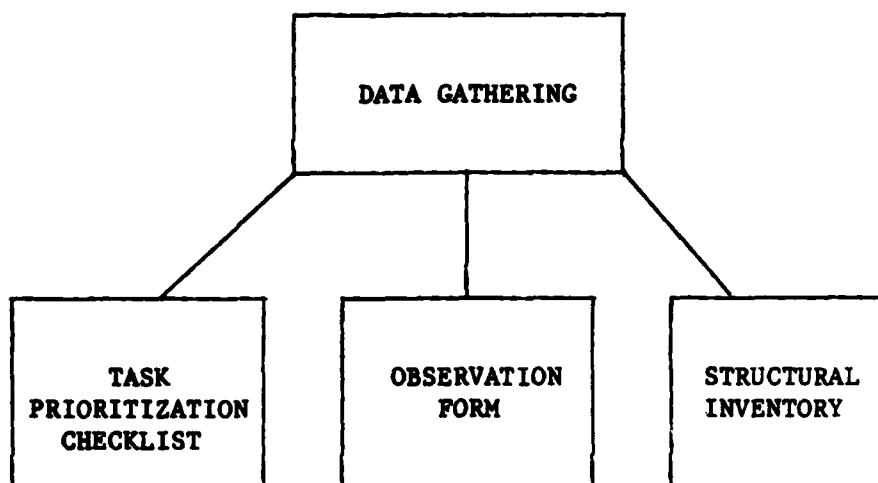


FIGURE 2

In order to establish Job Language Performance Requirements for this MOS the curriculum development specialists at the Defense Language Institute English Language Center (DLIELC) analyzed the current learning and working situations, and individual tasks. The goal was to collect data which would help identify the Job Language Performance Requirements pertinent to this MOS.

To conduct this analysis, training specialists visited the AIT School and Unit cadre. Interviews were conducted using a Task Prioritization Checklist, (Appendix 1). For each task, first-line supervisors answered the following questions:

1. Is the task taught?
2. How is the task taught?
3. Is the task tested?
4. How is the task tested?
5. How important are speaking, listening, reading and writing in learning and performing the task?
6. What are the results of poor performance in performing the task.

Additional data were gathered through use of an Observation Form and an analysis of language structures in the Soldier's Manual for this MOS.

The Observation Form (Appendix 4) was used to record actual observations of the learning situations, populations, tasks, and language.

The lexical and structural analysis was done by a panel of language specialists who first listed all structures found in the Soldier's Manual for this MOS and then all structures, standard and non-standard, noted on the Observation Forms for all vocabulary from the Soldier's Manual. All lists were then combined into an overall lexical and structural inventory.

SUMMARY/CONCLUSION:

The tools for data gathering were:

1. The Task Prioritization Checklist (Appendix 1)
2. The Task Inventory Compiled Data Form (Appendix 2)
3. The Observation Form (Appendix 4)
4. A Structural and Lexical Inventory (consisting of rough drafts of all vocabulary and structures in this MOS).

These tools were used to form the data pool from which the Job Language Requirements were determined.

SECTION II

DETERMINATION OF ENGLISH LANGUAGE SKILLS

INTRODUCTION

This section discusses the organization of the raw data into information used to determine the English language skills pertinent to this MOS.

SECTION II: DETERMINATION OF ENGLISH LANGUAGE SKILLS

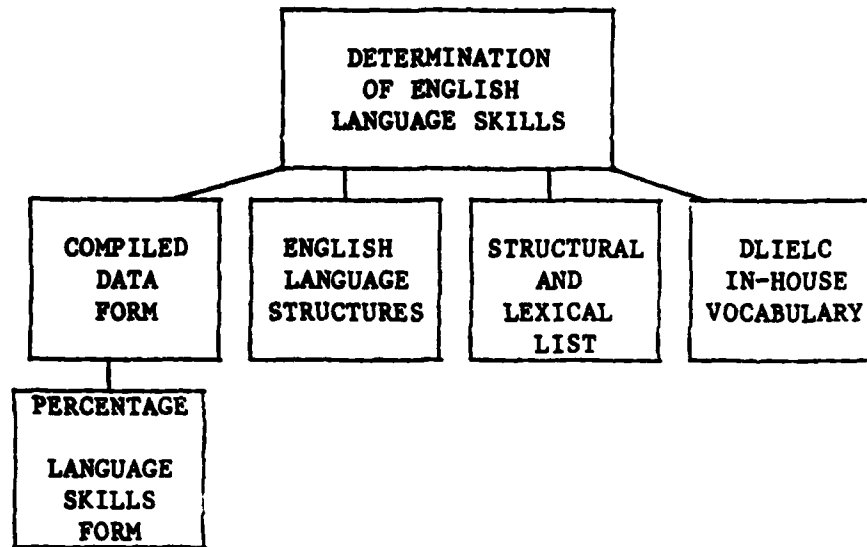


FIGURE 3

The raw data collected as described in Section II above was used to determine the English Language skills which the soldier must learn to learn and perform the task. The Compiled Data Form, Appendix 2, was used to organize the observation and analysis data. Selected information from the Task Prioritization Checklist was recorded directly on this form. Specifically three variables were used to determine the language skills involved. They were:

1. Methods of teaching.
2. Methods of testing.
3. The actual respondents' ratings of the four English language skills.

From each of the three variables the following skills were determined:

VARIABLE	ENGLISH LANGUAGE SKILLS
- Methods of Teaching - demonstration - lecture hands on self-paced	listening, listening, writing listening reading, writing

Methods of Testing performance oral written	listening speaking writing, reading
Rating of English Language Skills listening speaking reading writing	*a response of 2 or 3 on a scale of 1 to 3 was tallied a response of 1, 2, or 3 on a scale of 1 to 5 was tallied

*See A1

In order to determine the relations of the various skills in the MOS, data from the three variables were tallied on the Percentage Language Skills Form. An average was then found using the following formula:

$$TR \div TxVxR = \% \text{ of use}$$

T = total number of tasks per cluster

V = language skill variable per cluster**

R = maximum number of respondents in any task in that cluster

TR = total tally of responses per task per skill

% of use = use of the language skill in the task

Percentages found in this MOS were:

Listening	41%
Speaking	22%
Reading	28%
Writing	28%

As shown by the figures, listening is the most important skill in this MOS. However, in particular duty sections, percentages varied. Appendix 3, the Percentage Language Skills Form, shows the actual skill percentages in each duty position.

**See A3

Organization of structural and lexical items was done by comparing a structural and lexical list extracted from the Soldier's Manual with a structural inventory list extracted from ALC (American Language Center) materials through Volume 2400, at the end of which a trainee is normally qualified for Specialized English Technical Terminology training. By comparing the lists redundancies were eliminated, leaving the final list of structural and lexical items indicated by grammatical title in Appendix 5.

SUMMARY/CONCLUSION:

Organization of the data included the recording of responses on the Task Inventory Compiled Data Form, use of the Percentage Language Skills Form, and the DLIELC in-house structural analysis list. Skills were analyzed by duty section. The actual lexical items in this MOS were grouped and listed task by task. This information was then used to determine the specific Job Language Performance Requirements.

SECTION III

CLUSTERING OF COMMON AND DUTY POSITION TASKS

INTRODUCTION

Due to the overlapping of certain elements among the various MOS, tasks were clustered in order to prevent duplication of effort for each MOS.

This section contains a listing of the clusters for this MOS.

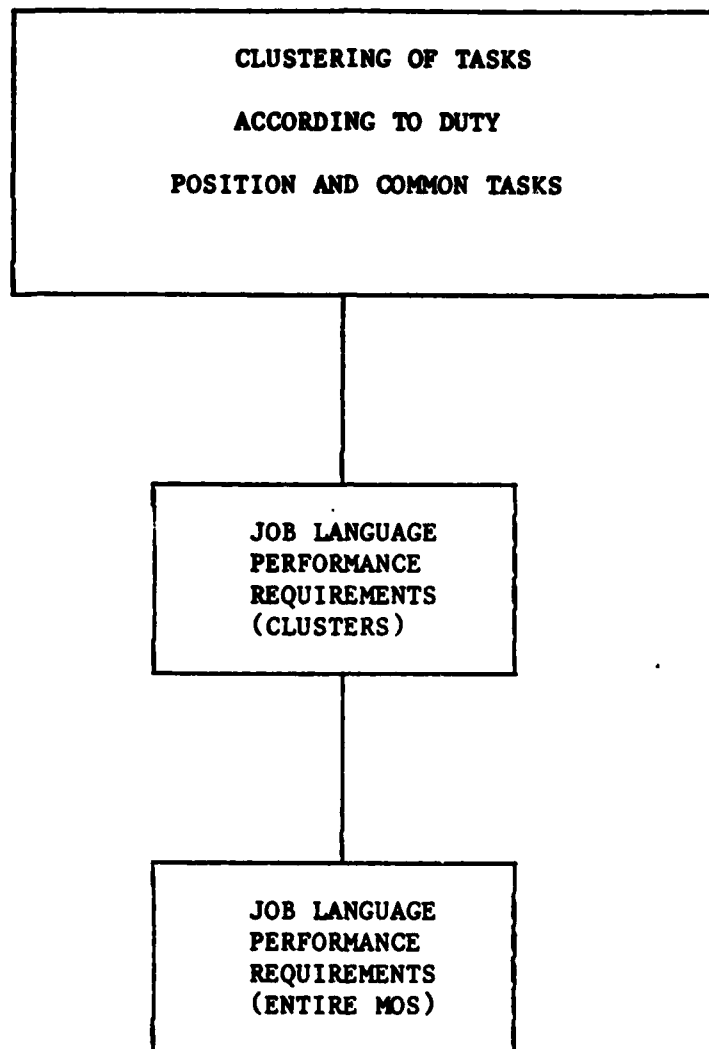


FIGURE 4

SECTION III: CLUSTERING OF COMMON AND DUTY POSITION TASKS

Clustering was done by using the common and duty position tasks in the Soldier's Manual.

The following clusters are in this MOS:

1. FIRST AID
2. NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS
3. INDIVIDUAL FITNESS
4. BASIC INDIVIDUAL TECHNIQUES
5. CAMOUFLAGE
6. SECURITY AND INTELLIGENCE
7. COMMUNICATIONS
8. LAND NAVIGATION
9. M16A1 RIFLE
10. LIGHT ANTITANK WEAPON (LAW)
11. GRENADES
12. MINES
13. VEHICLE OPERATIONS
14. M60 MACHINE GUN
15. MEASURING AND MEASURING EQUIPMENT
16. ASTRONOMIC OBSERVATIONS
17. RECORDING
18. COMPUTATIONS WITH THE SR-56
19. MANUAL COMPUTATIONS
20. GUN DIRECTION COMPUTER (FADAC)
21. MAINTENANCE

C. STANDARDS

The standard for our purpose is 100%. A standard for understanding or speaking cannot be tested as saying the soldier will disassemble a .45 caliber pistol in eight minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

SUMMARY/CONCLUSION:

The Job Language Performance Requirements including tasks, conditions, and standards, were first written for each task cluster. The clusters were then combined into the Job Language Performance Requirements for the entire MOS.

SECTION IV: JOB LANGUAGE PERFORMANCE REQUIREMENTS

The format for the Job Language Performance Requirements is:

TASK:
CONDITION:
STANDARD:

A. TASK

The Job Language Performance Requirements state the language tasks the soldier must do in studying/performing specific MOS job tasks. A task addressing language would be one of reading, listening, speaking or writing. Job tasks, as seen in the Soldier's Manual, are those which pertain to the soldiers duties. To write these as language tasks required the following explanations of what the soldier would speak, read, listen and write. Below are the kinds of explanations that had to be made in this MOS.

SPEAKING

Produces oral utterances to report/inform/explain/elicite response/respond.

Analysis of this MOS indicates verbal reports entailing those activities directly related to the soldiers job tasks.

The speaking act to respond or elicite response in this MOS is an oral response to a command or visual signal.

Speaking to explain involves situations of instruction in any training situation.

Speaking to inform involves producing oral utterances to communicate necessary information.

READING

Read for information/to learn.

Printed and written materials are used throughout this MOS. The soldier is expected to read technical manuals, fields manuals, soldier's manual, written communication and audio-visual aids. Content of these materials is presented in formats and styles ranging from simple factual words or sentences to complex passages containing highly technical vocabulary, often with ellipsis. The purpose is to teach the student, so the student reads them to learn. Reading to learn involves reading names, attributes, information, procedures, explanations of how systems work, concepts, vocabulary terms, and definitions which are committed to short or long term memory for immediate or later recognition.

Basically, the soldier will use these reading materials to supplement what is stated in a lecture by integrating the information from the different texts or written communiques into his understanding of the previous lecture.

The soldier must develop the ability to understand the words in context, to read in thought units, and then select and understand the main ideas. The soldier must retain, apply, and integrate these ideas with past experience to use in his MOS.

Reading to learn, then, is a synthesis. What is read is to be retained in memory for integration in new experiences.

Reading for information, on the other hand, is quite different. The read material is to be retained only in short term memory, used for a specific purpose (i.e., look up a metric equivalent of 37 pounds) and then forgotten.

LISTENING

Listen to oral information to learn/to report.

In this MOS, lecture is a main method of instruction. The lecture is often supplemented by a demonstration. The soldier listens to the lecture to learn data pertinent to the task. Analysis of lecture presentations indicated many language variables. The soldier hears sub-standard usages, various registers of style and formality, colloquialisms, even profanity, in situations ranging from a barracks to a field. The soldier must differentiate between the types of language functions. Is it expression, exchange, description, explanation, argumentation, persuasion, statement, request, or order? The oral information may be directly from the speaker and/or indirectly such as over the telephone, radio, TV, or tape. The soldier must organize and gain meaning from what is heard. Out of all these variables, the soldier must identify or infer the main ideas or major points.

Analysis of this MOS did not and could not specify all types of spontaneous language the soldier would be exposed to. The POI, though, does show the general form of the constrained oral language the soldier must listen to in order to learn the task.

B. CONDITIONS

The condition is what the soldier will be given in order to do the task. For the MOS job, the soldier is given paper, pencil, and printed materials. For language purposes, he will be given certain structural and lexical features as found through the data gathering and organizing from interviews and observations. Again, for the job that the soldier will be given, the material may be under normal working conditions, though other conditions may be added such as with or without protective gear or in darkness.

The soldier will read lists, tables, procedures, checklists or signs, and will hear scenarios, lectures, explanations, and commands. Therefore, these are listed with the Job Language Performance Requirements as possible conditions.

C. STANDARDS

The standard for our purpose is 100%. A standard for understanding or speaking cannot be tested as saying the soldier will disassemble a .45 caliber pistol in eight minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

SUMMARY/CONCLUSION:

The Job Language Performance Requirements including tasks, conditions, and standards, were first written for each task cluster. The clusters were then combined into the Job Language Performance Requirements for the entire MOS.

SECTION V

JOB LANGUAGE PERFORMANCE REQUIREMENTS (CLUSTERED)

INTRODUCTION

Sections I, II, III, and IV described how Job Language Performance Requirements were identified and constructed.

This section contains the Job Language Performance Requirements for each task cluster pertinent to this MOS.

FIRST AID

I. PERCENTAGE LANGUAGE SKILLS

Listening	46%
Speaking	24%
Reading	23%
Writing	26%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to respond
CONDITIONS:	Given a medical scenario involving simple questions about an illness in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce oral utterances to explain
CONDITIONS:	Given a simple medical scenario requiring an oral interpretation in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, procedures, tables and explanations
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete forms and to produce a written report
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

081-831-0001	Inspect a Casualty to Determine the First Aid Measures to be Applied
--------------	--

081-831-0002	Protect the Wound(s) of a Casualty
081-831-1001	Perform Mouth-to-Mouth Resuscitation
081-831-1002	Perform Cardiopulmonary Resuscitation (CPR) Using One Man Method
081-831-1003	Clear an Airway Using Heimlich Maneuver
081-831-1004	Apply First Aid Measures to Stop Bleeding
081-831-1005	Give First Aid to Prevent Shock
081-831-1006	Splint a Suspected Fracture
081-831-1007	Give First Aid for Burns
081-831-1008	Give First Aid for Heat Injuries
081-831-1009	Give First Aid for Wet or Cold Injuries
081-831-1010	Give First Aid for Snakebite

NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	43%
Speaking	27%
Reading	19%
Writing	24%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral communication

TASK: Listen to perform
CONDITIONS: Given oral warnings or verbal commands regarding simulated NBC situations (scenarios) in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral utterances

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given NBC situations requiring oral alarms
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, captioned illustrations and notations defined as explanations
STANDARDS: 100% understanding of printed content

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of procedures, captioned illustrations and notations defined as explanations
STANDARDS: 100% understanding of printed content

TASK: Write to record and report
CONDITIONS: Given a requirement to complete forms and produce a written report
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

031-503-1001	Perform Operator's Maintenance on an M17 Series Protective Mask
031-503-1002	Put on and Wear a Protective Mask
031-503-1003	Store Protective Mask with Hood in Carrier
031-503-1004	Recognize and Protect Self Against a CB Hazard
031-503-1005	Recognize and Protect Self Against a Nuclear Hazard
031-503-1006	Give Visual, Vocal, and/or Sound Alarms for Chemical or Biological Attack
031-503-1007	Decontaminate Self
031-503-1008	Decontaminate Individual Equipment
031-503-1009	Satisfy Personal Needs in a Chemical Environment
031-503-1010	Exchange Filters on an M17 Series Protective Mask
031-503-2002	Decontaminate Equipment Using ABC-M11 Decontaminating Apparatus
031-503-3005	Prepare and Submit NBC 1 Reports
081-831-1011	Give First Aid to a Nerve Agent Casualty
081-831-1012	Give First Aid to a Blister Agent Casualty
081-831-1013	Give First Aid to a Blood Agent Casualty
081-831-1014	Apply Mask-to-Mouth Resuscitation to a Chemical Agent Casualty
081-831-1015	Give Back-Pressure Armlift Artificial Resuscitation to a Chemical Agent Casualty
081-831-1001	Disinfect Water for Drinking (Canteen)

INDIVIDUAL FITNESS

I. PERCENTAGE LANGUAGE SKILLS

Listening	29%
Speaking	16%
Reading	15%
Writing	13%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of procedures, manuals, charts, captioned illustrations and explanations
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

071-327-0201	Maintain an Appropriate Level of Physical Fitness (Male Only)
071-327-0210	Maintain an Appropriate Level of Physical Fitness (Female Only)

BASIC INDIVIDUAL TECHNIQUES

I. PERCENTAGE LANGUAGE SKILLS

Listening	23%
Speaking	13%
Reading	17%
Writing	18%

II. JOE LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

181-906-1505	Identify Your Rights and Obligations as a Prisoner of War
071-326-0502	Move Under Direct Fire
071-326-0600	Use Visual Signals to Control Movement (Dismounted)
071-326-5703	Construct Individual Fighting Positions
071-331-0001	Move as a Member of a Patrol
071-331-0852	Clear Fields of Fire
061-306-6004	Perform Crater and Shell Fragment Analysis

CAMOUFLAGE

I. PERCENTAGE LANGUAGE SKILLS

Listening	45%
Speaking	19%
Reading	14%
Writing	18%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

051-202-1001	Camouflage/Conceal Self and Individual Equipment
051-202-1003	Camouflage/Conceal Defensive Positions

SECURITY AND INTELLIGENCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	23%
Speaking	21%
Reading	14%
Writing	16%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral communication

TASK: Listen to orally interact
CONDITIONS: Given oral challenges, passwords and scenarios in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral information

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral responses

TASK: Produce spontaneous oral utterances to interact
CONDITIONS: Given the requirement to orally respond to challenges, passwords, and security situations in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, tables and warnings
STANDARDS: 100% understanding of printed content

TASK: Write to record and report
CONDITIONS: Given the requirement to complete forms and make written reports
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

071-331-0801	Use Challenge and Password
071-331-0802	Process Known or Suspected Enemy Personnel
071-331-0803	Collect/Report Information - SALUTE
071-331-0806	Identify Opposing Force (OPFOR) Armored Vehicles
071-331-0808	Identify Opposing Forces (OPFOR) Weapons and Equipment
071-331-0809	Emplace and Recover Field Expedient Warning Devices

COMMUNICATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	35%
Speaking	22%
Reading	17%
Writing	20%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral utterances
TASK:	Listen to perform
CONDITIONS:	Given a brief oral message including proverbs in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral content
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances over radiotelephone
CONDITIONS:	Given the requirement to orally communicate using the phonetic alphabet in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of instructions, captioned illustrations and sample messages using proverbs
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete communications forms and logs
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

113-571-1003	Establish, Enter or Leave a Radio Net
113-571-1005	Send or Receive a Radiotelephone Message

113-573-4001	Encode and Decode Messages Using KTC-600 Tactical Operations Code
113-573-4002	Use KAL-612 KTC 1400 Numerical Code to Authenticate Transmissions and Encrypt/Decrypt Numbers and Grid Zone Letters
113-573-8001	Use an Automated CECI
113-587-1001	Install Radio Set AN/PRC-77 or AN/PRC-25
113-587-1004	Install Radio Set AN/VRC-46 (AN/VRC-12 Series)
113-587-2001	Operate Radio Set AN/PRC-77 or AN/PRC-25
113-587-2003	Operate Radio Set AN/VRC-46 (AN/VRC-12 Series)
113-587-2014	Prepare for Operation and Operate Radio Set AN/PRC-150
113-587-3004	Perform Operator Maintenance on Radio Sets AN/VRC-46 and AN/VRC-47
113-587-3005	Perform Operator Maintenance on Radio Sets AN/PRC-77 and AN/PRC-25 or AN/GRC-150
113-588-1037	Install Communications Wire Lines
113-600-1001	Install Telephone Set TA-312/PT
113-600-2001	Operate Telephone Set TA-312/PT
113-600-3001	Perform Operator Preventive Maintenance on Telephone Set TA-312/PT

LAND NAVIGATION

I. PERCENTAGE LANGUAGE SKILLS

Listening	53%
Speaking	24%
Reading	49%
Writing	43%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of marked maps, definitions, captioned illustrations, instructions and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to record the grid reference
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

051-203-1506	Determine the Geographic Coordinates of a Point on the Map
071-329-1001	Identify Terrain Features (Natural and Manmade) on the Map
071-329-1002	Determine the Grid Coordinates of a Point on a Military Map Using the Military Grid Reference System
071-329-1004	Determine the Elevation of a Point on the Ground Using a Map
071-329-1005	Determine a Location on the Ground by Terrain Association
071-329-1006	Navigate from One Position on the Ground to Another Point

071-329-1007	Determine Distance While Moving Between 2 Points on the Ground
071-329-1008	Measure Distance on a Map
071-329-1022	Determine an Unknown Point on a Map by Intersection
071-329-1023	Determine an Unknown Point on a Map by Resection
071-329-1024	Measure an Azimuth on a Map with a Protractor
071-329-1025	Orient a Map Using a Declinated M2 Compass
071-329-7009	Convert Azimuths (Magnetic or Grid)
071-329-7012	Orient a Map to the Ground by Map-Terrain Association
071-329-7016	Determine Azimuth Using an M2 Compass

M16A1 RIFLE

I. PERCENTAGE LANGUAGE SKILLS

Listening	53%
Speaking	20%
Reading	19%
Writing	25%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, captioned illustrations, warnings and references
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of a range card
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete a range card
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

071-311-2001	Perform Operator Maintenance on an M16A1 Rifle, Magazine and Ammunition
071-311-2003	Load, Reduce a Stoppage, and Clear an M16A1 Rifle
071-311-2004	Battlesight Zero an M16A1 Rifle

071-311-2006 Use Limited Visibility Firing Techniques With the M16A1
Rifle
071-311-2007 Qualify with the M16A1 Rifle

LIGHT ANTITANK WEAPON (LAW)

I. PERCENTAGE LANGUAGE SKILLS

Listening	46%
Speaking	18%
Reading	16%
Writing	18%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS: 100% understandable oral utterances

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS: 100% understanding of printed content

III. TASK NUMBERS AND TITLES

071-318-2201	Prepare an M72A2 LAW for Firing; Restore M72A2 LAW to Carrying Configuration
071-318-2202	Engage Targets with an M72A2 LAW
071-318-2203	Apply Immediate Action to Correct a Malfunction on an M72A2 LAW

GRENADERS

I. PERCENTAGE LANGUAGE SKILLS

Listening	39%
Speaking	20%
Reading	16%
Writing	20%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral information
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures, definitions, captioned illustrations and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

071-311-2101	Perform Operator Maintenance on M203 Grenade Launcher and Ammunition
071-311-2102	Load, Unload and Clear the M203 Grenade Launcher
071-311-2103	Zero an M203 Grenade Launcher
071-311-2104	Engage Targets with an M203 Grenade Launcher and Apply Immediate Action to Reduce a Stoppage

071-311-2105 Use Limited Visibility Firing Technique with the M203
Grenade Launcher
071-325-4401 Perform Safety Checks on Hand Grenades
071-325-4402 Engage Enemy Targets with Hand Grenades -
071-325-4405 Identify and Employ Hand Grenades -
-
-

MINES

I. PERCENTAGE LANGUAGE SKILLS

Listening	22%
Speaking	14%
Reading	13%
Writing	13%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously on request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures, definitions, captioned illustrations and references
STANDARDS:	100% understanding of printed content
TASK:	Write to inform
CONDITIONS:	Given a requirement to mark mine fields
STANDARDS:	100% understandable and legible written communication

III. TASK NUMBERS AND TITLES

051-192-1003	Install the M18A1 Fragmentation Antipersonnel Mine (Claymore) With and Without Tripwires
051-192-1013	Disarm the M18A1 Fragmentation Antipersonnel Mine (Claymore) Equipped With and Without Tripwires
051-192-1021	Locate Mines by Visual Means
051-192-1022	Locate Mines by Probing
051-201-1001	Use and Maintain Hand Tools

VEHICLE OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	35%
Speaking	17%
Reading	20%
Writing	20%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, tables, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and vehicle log-books
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

101-530-1206	Prepare the Equipment Log
101-530-3008	Prepare DA Form 2404 (Equipment Inspection and Maintenance Worksheet)
101-530-1201	Prepare Motor Vehicle Utilization Record to Dispatch, Organizational Equipment
551-721-1007	Perform Before-Operation Maintenance
551-721-1008	Perform During Operation Maintenance
551-721-1009	Perform After-Operation Maintenance
551-721-1011	Drive Vehicle with Manual Transmission
551-721-1013	Operate Vehicle in Snow and Ice
551-721-1014	Operate Vehicle in Sand
551-721-1015	Drive Vehicle Off Road
551-721-1016	Drive Vehicle in Motor March or Convoy
551-721-1017	Utilize Vehicle Camouflage and Concealment
551-721-1018	Drive Vehicle Under Blackout Conditions
551-721-1019	Drive Vehicle Through Contaminated Area

551-721-1020	Utilize Proper Defense Procedures When Ambushed or Attacked
551-721-1021	Take Passive Defense Measures Against Air Attacks
551-721-1028	Perform Vehicle Self-Recovery Using Winch
551-721-1841	Prepare an M51-Series Truck for Operation Under Unusual Conditions
551-721-1848	Prepare a 11/4-Ton Cargo Truck (M561) for Operations Under Unusual Conditions
551-721-1890	Prepare an M830-Series Truck for Operations Under Unusual Conditions
551-721-1836	Guide a Wheeled or Tracked Vehicle

M60 MACHINEGUN

I. PERCENTAGE LANGUAGE SKILLS

Listening	33%
Speaking	15%
Reading	15%
Writing	18%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to answer in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of requirements, captioned illustrations and labels
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of a range card
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete a range card
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

071-312-2320	Mount/Dismount an M60 Machinegun on an M122 Tripod
071-312-3001	Operate an M60 Machinegun
071-312-3002	Fire the M60 Machinegun for Familiarization
071-312-3003	Lay M60 Machinegun Using Field Expedients
071-312-3004	Construct an M60 Machinegun Position
071-312-3005	Perform Operator's Maintenance on an M60 Machinegun and Ammunition

071-312-3006 Field Zero an M60 Machinegun
071-312-3007 Prepare a Range Card for an M60 Machinegun
071-312-3008 Qualify With an M60 Machinegun
071-312-3009 Zero an M60 Machinegun on 10-Meter Range -
441-099-1001 Engage an Aerial Target With an M60 Machinegun

MEASURING AND MEASURING EQUIPMENT

I. PERCENTAGE LANGUAGE SKILLS

Listening	56%
Speaking	24%
Reading	39%
Writing	35%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, tables, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-1001	Mark Survey Stations
061-302-1002	Set Up/March Order an Aiming Circle
061-302-1003	Measure Horizontal and Vertical Angles with an Aiming Circle
061-302-1004	Declinate an Aiming Circle
061-302-1005	Set up and March Order a Theodolite, T2/T16
061-302-1006	Measure Horizontal and Vertical Angles with the 0.2-Mil Theodolite
061-302-1007	Measure One-Position Horizontal and Vertical Angles with a 0.002-Mil Theodolite
061-302-1008	Measure Two-Position Horizontal and Vertical Angles with the 0.002-Mil Theodolite
061-302-1009	Set Up, Tune, and Measure Distance with the Surveying Instrument, Distance Measuring, Electronic, (SEDME) (MW)
061-302-1010	Align the 0.002-Mil Theodolite on a Predetermined Azimuth
061-302-1011	Set up and March Order an Azimuth Gyro (ABLE)
061-302-1012	Measure Azimuths with an Azimuth Gyro (ABLE)
061-302-1013	Measure Distance with a 30 Meter Steel Tape

061-302-1014 Repair a 30 Meter Steel Tape
061-302-1015 Compute Comparative Accuracy of Taped Distances
061-302-1016 Establish a Subtense Base and Measure the Subtended Angle
061-302-1017 Perform as an Observation Post Observer
061-302-1018 Adjust Indirect Fire from a Single Survey Observation
Post
061-302-1019 Set Up and Measure Azimuths with the Lightweight Azimuth
Gyro (SLAGL)
061-302-1020 Set Up and Measure Distances with a Surveying Electronic,
Distance Measuring, Equipment (SEDME) (IR) (DM-60)

ASTRONOMIC OBSERVATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	67%
Speaking	32%
Reading	57%
Writing	47%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, tables, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-1021	Perform Astronomic Observation with T2/T16
061-302-1023	Perform a Simultaneous Observation
061-302-1024	Perform a Polaris-Kochab Observation

RECORDING

I. PERCENTAGE LANGUAGE SKILLS

Listening	53%
Speaking	35%
Reading	56%
Writing	57%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-1026	Record Field Notes
061-302-1027	Compute Slope Distance for Distance Measuring, Electronic (DME) (MW)

COMPUTATIONS WITH THE SR-56

I. PERCENTAGE LANGUAGE SKILLS

Listening	51%
Speaking	21%
Reading	63%
Writing	52%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-1028	Operate the Hand-Held Calculator SR-56
061-302-1029	Compute Azimuth and/or Distance from Known Coordinates with the SR-56
061-302-1030	Compute a Traverse Leg with the SR-56
061-302-1031	Compute Accuracy Ratio with the SR-56
061-302-1032	Compute a Single Chain of Triangles with the SR-56
061-302-1033	Compute a Three Point Resection with the SR-56
061-302-1034	Compute an Azimuth by the Sun/Star Altitude Method with an SR-56
061-302-1035	Compute Azimuth by the Polaris Tabular Method with the SR-56
061-302-1036	Compute Grid Convergence with the SR-56
061-302-1037	Compute Subtense with SR-56 to Determine a Distance
061-302-1038	Compute Horizontal Distance Measured by SEDME (MW) or (IR) with the SR-56
061-302-2110	Compute the Conversion of Geographic Coordinates to UTM Grid Coordinates with the SR-56

- 061-302-2111 Transform UTM Grid Coordinates from One Grid Zone into an Adjoining Grid Zone with the SR-56
- 061-302-2112 Transform UTM Grid Azimuth from One Grid Zone into an Adjoining Grid Zone with the SR-56
- 061-302-2114 Compute the Conversion of UTM Grid Coordinates to Geographic Coordinates with the SR-56
- 061-302-2115 Compute Azimuth from a Sun Hour-Angle Observation with the SR-56

MANUAL COMPUTATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	51%
Speaking	26%
Reading	57%
Writing	53%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-1039	Compute Subtense to Determine a Distance
061-302-1040	Compute Azimuth and/or Distance from Known Coordinates (Manual or Hand-Held Calculator)
061-302-1041	Compute a Traverse and Closing Data (Manual or Hand-Held Calculator)
061-302-1042	Compute an Intersection (Manual or Hand-Held Calculator)
061-302-1043	Compute a Single Chain of Triangles (Manual or Hand-Held Calculator)
061-302-1044	Compute a Three Point Resection (Manual or Hand-Held Calculator)
061-302-1045	Compute Azimuth Using Sun/Star Altitude Observation Method (Manual or Hand-Held Calculator)
061-302-1046	Compute Azimuth from Polaris Tabular Observation Data (Manual or Hand-Held Calculator)
061-302-1047	Compute Azimuth from Simultaneous Observation Data
061-302-1048	Compute Grid Convergence (Manual or Hand-Held Calculator)

061-302-1049	Compute Sea Level Distance for Surveying Electronic, Distance Measuring, Equipment (SDME) (40) or (18)
061-302-2122	Compute a Traverse Adjustment (Manual or Hand-Held Calculator)
061-302-2126	Compute Azimuth Using Sun Hour-Angle, or Star Hour-Angle Observation Method (Manual or Hand-Held Calculator)
061-302-2130	Compute the Conversion of Geographic Coordinates to UTM Grid Coordinates (Manual or Hand-Held Calculator)
061-302-2131	Transform UTM Grid Coordinates from One Grid Zone into an Adjoining Grid Zone (Manual or Hand-Held Calculator)
061-302-2132	Transform UTM Grid Azimuth from One Grid Zone into an Adjoining Grid Zone (Manual or Hand-Held Calculator)
061-302-2133	Convert to Common Control (Manual or Hand-Held Calculator)

GUN DIRECTION COMPUTER (FADAC)

I. PERCENTAGE LANGUAGE SKILLS

Listening	33%
Speaking	33%
Reading	33%
Writing	33%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, tables, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

061-302-2135	Service a GED Generator Set (FADAC)
061-302-2136	Operate a GED Generator Set (FADAC)
061-302-2137	Prepare the (FADAC) for Operation
061-302-2138	Compute a Traverse Adjustment with (FADAC)
061-302-2139	Convert UTM Coordinates to Geographic Coordinates Using (FADAC)
061-302-2140	Convert Geographic Coordinates to UTM Coordinates Using (FADAC)
061-302-2141	Compute a Zone to Zone Transformation of Coordinates and Azimuth with (FADAC)
061-302-2142	Compute Grid Convergence with (FADAC)

MAINTENANCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	30%
Speaking	16%
Reading	25%
Writing	22%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 7)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, tables, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given the requirement to complete forms
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

061-302-1052	Perform Operator Maintenance Checks and Adjustments on the Aiming Circle
061-302-1053	Perform Theodolite Tests and Adjustments
061-302-1054	Perform Services on a Theodolite
061-302-1055	Perform Operator Checks and Services on the SEDME (MW)
061-302-1056	Perform Operator Checks and Services on the Azimuth Gyro (ABLE)
061-302-1057	Perform Operator Services on the SEDME (IR) (DM-60)
061-302-1058	Perform Operator Checks and Services on the Lightweight Azimuth Gyro (SIAGL)

SECTION VI

JOB LANGUAGE PERFORMANCE REQUIREMENTS (Entire MOS)

INTRODUCTION

This section contains language tasks for each generic skill for this MOS. Listed below each task are the types of receptive or productive language activity involved.

LISTENING

TASK: Understand oral language intended to inform or instruct.

CONDITIONS: Given explanations, procedures, rules, instructions or definitions in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding and assimilation of presented oral language task.

The following are specific conditions found in this language task:

Warnings
Described situations
Directions
Lectures
Commands, Orders
Sound tracks (films, tapes)
Standard/Non-standard English
Instructions
SQT questions

TASK: Understand spontaneous oral language or language via a technical medium - such as a radio telephone - intended to inform and elicit responses.

CONDITIONS: Given scenarios, questions, commands or requests in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5, & 6)

STANDARDS: 100% understanding and assimilation of oral language in order to apply and respond.

The following are specific conditions found in this language task:

Shouting
Radio communications
Coded messages
Spellings
Conversation
Requests

SPEAKING

- TASK:** Formulate and produce appropriate oral responses spontaneously.
- CONDITIONS:** Given any verbal stimulus in the form of questions, scenarios, instructions, or cues in any training situation.
(Appendices 5 & 6)
- STANDARDS:** 100% understandable oral response using correct lexicon and syntax for the training situation.

The following are specific conditions found in the language task:

Explanations
Statements
Repetitions
Counting
Corrections
Assignments
Notifications
Oral reports
Answers
Clarifications
Information

- TASK:** Produce oral utterances to interact and communicate spontaneously or via a technical medium such as radio telephone.
- CONDITIONS:** Given a communicative situation (Appendices 4, 5, & 6 Soldier's Manual) in any training situation.
- STANDARDS:** 100% understandable communication using correct lexicon and syntax for the communication act.

The following are specific conditions found in this language task:

Requesting information
Requesting permission
Transmitting messages
Call signs
Vocal signals
Shout warnings
Radio communications
Target locations
Directions (N,S,E,W)
Directions, general
Requests for fire
Report on the results of fire
Challenges/Passwords
Training sessions
Interaction

READING

TASK: Read MOS training in the form of printed prose or graphic representations in order to learn processes, concepts, vocabulary, definitions and identifications, to calculate problems, intercept codes and complete forms. - -

CONDITIONS: Given technical, non-technical, lexical and structural features in simple to complex printed form in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding of printed content.

The following are specific conditions found in this language task:
Captions with illustrations.

Lists	Extracts
Procedures	Columns
Information	Indices
Definitions	Charts
Outlines	Methods
Signs	Technical Vocabulary
Markers	Standard Operating Procedures
References	Cartoons
Rules	Problems
Maps	Manuals
Flags	Graphic Training Aids
Military Documents	
I.D. Papers	
Regulations	

TASK: Identify, understand, and interpret written utterances pertinent to MOS training in technical or non-technical language.

CONDITIONS: Given technical, non-technical, lexical and structural features in simple to complex written form in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding of written content.

The following are specific conditions found in this language task:

Lists
Information
Descriptions
Radiation readings off dosimeter
Coordinate scales
Callsigns-suffices
Three-letter codes
Examples
Calculations
Markings
Radio communications
Range cards
Notes
Messages

WRITING

- TASK:** Upon instruction, write in conventional orthography, letter, numbers, words or sentences appropriate to the training situation.
- CONDITIONS:** Given standardized forms, paper or answer sheets and the instructions to list, answer, describe or recall.
- STANDARDS:** 100% syntactical and lexical correctness and legibility of writing which is also appropriate in style and usage to training situations. (Appendix 4)

The following are specific conditions found in this language task:

Ratings
Signatures
Range cards
Data symbols
Answers
Descriptions
Notes
Reports

- TASK:** Write, in conventional orthography, letters, or specialized code, numbers, words or sentences in order to transmit or record information.
- CONDITIONS:** Given standardized forms or paper and oral communication.
- STANDARDS:** 100% syntactical and lexical correctness of writing which can be read by another speaker of English.

The following are specific conditions found in this language task:

Technical forms
Codes
Grid coordinates
Decoded messages
Encoded messages
Logbooks
Plottings
Figures
Reports
Tags
Range cards
Applicable DA forms

APPENDICES

1. Task Prioritization Checklist
2. Task Inventory Compiled Data Forms
3. Percentage Language Skills
4. Observation Form
5. Structural/Lexical list
6. Vocabulary (DLIELC in-house)
7. Vocabulary (machine-generated)
8. English Language Structures

APPENDIX 1

TASK PRIORITIZATION CHECKLIST

This Checklist was approved by the
Department of the Army in 1980.

(PRESENTLY WORKING IN)

POS IN WHIC. YOU WERE TRAINED: _____
POSITION: _____
UNIT: _____

2 = med
3 = hlg

YES

NO

IS TASK
TAUGHT?

LISTENING*
SPEAKING*
READING*
WRITING*

LECTURE
SELF-PACED
DEMONSTRATION
HANDS-ON

YES

NO

IS TASK
TESTED?

WRITTEN
ORAL
PERFORMANCE

PERSON

EQUIPMENT

RESULTS
DANGER

60

APPENDIX 2

TASK INVENTORY COMPILED DATA FORM

This form was used to record data from
the Task Prioritization Checklist.

F1557 A1D

[illegible]

1524 616

25/2

[illegible]

[illegible]

MOS _____ NUMBER OF RESPONDENTS _____
DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

RATING OF ELS		METHODS OF TESTING		METHODS OF TEACHING		CRITICALITY		AIT	
writing		written		self-paced		danger to person or		difficulty?	
reading		oral		hands-on		equipment		tested?	
speaking		performance		demonstration		importance		taught?	
listening				lecture					

TASK	NUMBER
1. Read the text and answer the questions.	1
2. Write a short paragraph about the importance of recycling.	2
3. Discuss the benefits of using renewable energy sources.	3
4. Write a letter to your friend about your plans for the future.	4
5. Prepare a presentation on the history of your country.	5
6. Write a report on the impact of climate change on the environment.	6
7. Discuss the role of technology in modern society.	7
8. Write a story about a person who overcame a great challenge.	8
9. Prepare a debate on the topic of global warming.	9
10. Write a poem about the beauty of nature.	10

034-503-1007

8001-305-1008

034-573-1009

031-502-1010

25N

NBC

MOS

822

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		importance	danger to person or equipment	self-paced	hands-on	demonstration	performance	oral	written	listening	speaking	reading	writing
						tested?	difficult?												
081-131-1012																			
081-131-1013																			
081-131-1014																			
081-131-1015																			

822

MOS _____ NUMBER OF RESPONDENTS _____
DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

[illegible]

[illegible]

[illegible]

DATA OBTAINED FROM _____ TRAINING SPECIALIST

071-3310802

החלטה / 1979-2000

[illegible]

[illegible]

MOS

82C

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST	
											danger to person or equipment	importance	difficult?	tested?	danger to person or equipment	importance	difficult?	tested?
113-513-400			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?	danger to person or equipment importance											
113-513-600			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?	danger to person or equipment importance											
113-513-100			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?	danger to person or equipment importance											
113-513-100			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?	danger to person or equipment importance											

COMMON CARDS

TRAINING SPECIALIST

[illegible]**MOS**

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

		writing		reading		speaking		listening	
RATING OF ELS									
METHODS OF TESTING	written								
	oral								
	performance								
METHODS OF TEACHING	self-paced								
	hands-on								
	demonstration								
	lecture								
CRITICALITY	danger to person or								
	equipment								
	importance								
AIT	difficulty?								
	tested?								
	taught?								

TASK	NUMBER
------	--------

113-587-2001

13-587-2003

113-587-2014

Agm. wilsoni

James Earl

MOS

82C

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		MOS	NUMBER OF RESPONDENTS	DATA OBTAINED FROM	TRAINING SPECIALIST			
						difficult?	tested?							
		danger to person or equipment	self-paced	written	writing									
					reading									
					speaking									
					listening									
		importance	hands-on	oral	written									
					reading									
					speaking									
					listening									
		danger to person or equipment	demonstration	performance	written									
					reading									
					speaking									
					listening									
	importance	lecture		written										
				reading										
				speaking										
				listening										
	difficulty?			written										
				reading										
				speaking										
				listening										
	tested?			written										
				reading										
				speaking										
				listening										
	taught?			written										
				reading										
				speaking										
				listening										
071-319-1002		danger to person or equipment	self-paced	written	writing									
					reading									
					speaking									
					listening									
		importance	hands-on	oral	written									
					reading									
					speaking									
					listening									
		danger to person or equipment	demonstration	performance	written									
					reading									
					speaking									
					listening									
	importance	lecture		written										
				reading										
				speaking										
				listening										
	difficulty?			written										
				reading										
				speaking										
				listening										
	tested?			written										
				reading										
				speaking										
				listening										
	taught?			written										
				reading										
				speaking										
				listening										
071-319-1004		danger to person or equipment	self-paced	written	writing									
					reading									
					speaking									
					listening									
		importance	hands-on	oral	written									
					reading									
					speaking									
					listening									
		danger to person or equipment	demonstration	performance	written									
					reading									
					speaking									
					listening									
	importance	lecture		written										
				reading										
				speaking										
				listening										
	difficulty?			written										
				reading										
				speaking										
				listening										
	tested?			written										
				reading										
				speaking										
				listening										
	taught?			written										
				reading										
				speaking										
				listening										
071-319-1005		danger to person or equipment	self-paced	written	writing									
					reading									
					speaking									
					listening									
		importance	hands-on	oral	written									
					reading									
					speaking									
					listening									
		danger to person or equipment	demonstration	performance	written									
					reading									
					speaking									
					listening									
	importance	lecture		written										
				reading										
				speaking										
				listening										
	difficulty?			written										
				reading										
				speaking										
				listening										
	tested?			written										
				reading										
				speaking										
				listening										
	taught?			written										
				reading										
				speaking										
				listening										

LAW NATION

[illegible]

NUMBER OF RESPONDENTS

TRAINING SPECIALIST

[illegible]

danger to person or	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
equipment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
difficult?	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
tested?	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

MOS _____ NUMBER OF RESPONDENTS _____

DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

writing _____

[illegible]

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST			
						difficult?	tested?	danger to person or equipment	importance	self-paced	hands-on	demonstration	lecture	written	oral	performance	
071-31-2a03	071-31-2a04	071-31-2a06	writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture	danger to person or equipment	importance	difficult?	tested?

743

[illegible]

W. H. O'NEIL

danger to person or	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
equipment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
importance	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
difficult?	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
tested?	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

MOS _____ NUMBER OF RESPONDENTS _____
 DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

writing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	
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TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS _____		NUMBER OF RESPONDENTS _____		DATA OBTAINED FROM _____		TRAINING SPECIALIST _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
						difficult?	tested?	danger to person or equipment	importance	self-paced	hands-on	demonstration	lecture	written	oral	performance	writing	reading	speaking	listening																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
551-721-1015	C	1	self-paced	written	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TRAINING SPECIALIST

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TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST		
551-721-1018	1	1	self-paced hands-on demonstration lecture	written oral performance	writing	1	1	1	1	1	1	1	1	
					reading	1	1	1	1	1	1	1	1	1
					speaking	1	1	1	1	1	1	1	1	1
					listening	1	1	1	1	1	1	1	1	1
	1	1	self-paced hands-on demonstration lecture	written oral performance	written	1	1	1	1	1	1	1	1	
					oral	1	1	1	1	1	1	1	1	1
					performance	1	1	1	1	1	1	1	1	1
					self-paced	1	1	1	1	1	1	1	1	1
	1	1	self-paced hands-on demonstration lecture	written oral performance	hands-on	1	1	1	1	1	1	1	1	
					demonstration	1	1	1	1	1	1	1	1	1
					lecture	1	1	1	1	1	1	1	1	1
					danger to person or equipment	1	1	1	1	1	1	1	1	1
1	1	self-paced hands-on demonstration lecture	written oral performance	importance	1	1	1	1	1	1	1	1		
				difficulty?	1	1	1	1	1	1	1	1	1	
				tested?	1	1	1	1	1	1	1	1	1	
				taught?	1	1	1	1	1	1	1	1	1	
1	1	self-paced hands-on demonstration lecture	written oral performance	551-721-1841	1	1	1	1	1	1	1	1		
				551-721-1841	1	1	1	1	1	1	1	1	1	
				551-721-1841	1	1	1	1	1	1	1	1	1	
				551-721-1841	1	1	1	1	1	1	1	1	1	

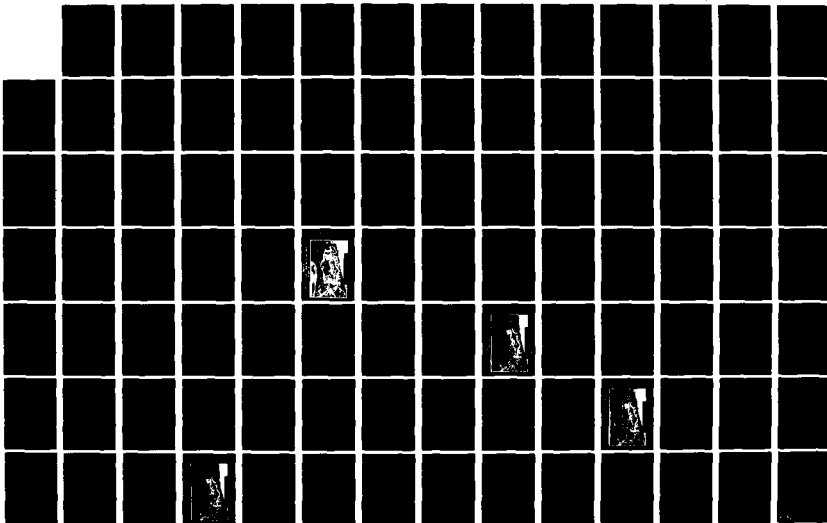
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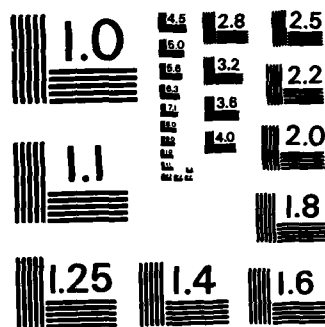
JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR AOS 82C FIELD
ARTILLERY SURVEYOR (U) DEFENSE LANGUAGE INST LACKLAND
AFB TX ENGLISH LANGUAGE CENTER. 06 NOV 79

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

160 MANNING

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	IMPORTANCE	EQUIPMENT	DANGER TO PERSON OR	DATA OBTAINED FROM										NUMBER OF RESPONDENTS									
										TRAINING SPECIALIST																			
			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?																							
07-312-3002			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?																							
07-312-3003			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?																							
07-312-3004			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult? tested?																							

MOS _____ NUMBER OF RESPONDENTS _____

DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

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[illegible]

MOS 82C NUMBER OF RESPONDENTS
DATA OBTAINED FROM TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS
061-301-1006	difficulty?									
	tested?									
	taught?									
061-301-1007	difficulty?									
	tested?									
	taught?									
061-301-1008	difficulty?									
	tested?									
	taught?									
061-301-1009	difficulty?									
	tested?									
	taught?									

MEASUREMENT AND METASTUDY EVALUATION

PAGE 40
OF 57

MOS

82c

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	
						difficult?	tested?					
061-301-1010		danger to person or equipment importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening			danger to person or equipment importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	
												061-302-1011
061-303-1012		danger to person or equipment importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening			danger to person or equipment importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	

MEASURING AND MEASURING EQUIPMENT

MOS 926 NUMBER OF RESPONDENTS
DATA OBTAINED FROM TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		MOS	NUMBER OF RESPONDENTS	DATA OBTAINED FROM	TRAINING SPECIALIST				
						danger to person or equipment	importance								
061-302-1013	writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture				
												danger to person or equipment	importance		
														difficult?	tested?
061-302-1014	writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture				
												danger to person or equipment	importance		
														difficult?	tested?
061-302-1015	writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture				
												danger to person or equipment	importance		
														difficult?	tested?
061-302-1016	writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture				
												danger to person or equipment	importance		
														difficult?	tested?

PAGE 42
OF 57

MOS

822

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	IMPORTANCE	EQUIPMENT	DANGER TO PERSON OR	LECTURE	DEMONSTRATION	HANDS-ON	SELF-PACED	PERFORMANCE	ORAL	WRITTEN	LISTENING	SPEAKING	READING	WRITING
061-301-1017	difficulty?																			
	tested?																			
	taught?																			
061-302-1018	difficulty?																			
	tested?																			
	taught?																			
061-302-1019	difficulty?																			
	tested?																			
	taught?																			

MEASURING AND EVALUATING PERFORMANCE

ASTRONOMIC OBSERVATIONS

25-25 10/10/10

Compton, A. J. 1954. 5-25

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25-25 Main & 10th St

TRAINING SPECIALIST

061-302-1041

SALES AND MFG. 200000

MOS

82C

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST																					
											danger to person or	equipment	importance	difficult?	tested?																							
061-302-1043		writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture	danger to person or	equipment	importance	difficult?	tested?																					
061-302-1044		writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture	danger to person or	equipment	importance	difficult?	tested?																					
061-302-1045		writing	reading	speaking	listening	written	oral	performance	self-paced	hands-on	demonstration	lecture	danger to person or	equipment	importance	difficult?	tested?																					

MAN UIC COMPUTATIONS

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS _____ NUMBER OF RESPONDENTS _____		DATA OBTAINED FROM _____ TRAINING SPECIALIST _____	
											danger to person or equipment	importance	difficult?	tested?
041-302-1046	1	3	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment	importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult?	tested?		
041-302-1047	1	3	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment	importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult?	tested?		
041-302-1048	1	3	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment	importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult?	tested?		
041-302-1049	1	3	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment	importance	self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	difficult?	tested?		

danger to person or
equipment
importance
difficult?
tested?
MOS _____ NUMBER OF RESPONDENTS _____
DATA OBTAINED FROM _____ TRAINING SPECIALIST _____
writing
reading
speaking
listening
written
oral

M.A. M. S. S. S. S. S.

[illegible]

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		CRITICALITY		METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						difficult?	tested?	danger to person or equipment	importance				self-paced	hands-on	demonstration	lecture	written	oral	performance	writing	reading	speaking	listening																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

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APPENDIX 3

PERCENTAGE LANGUAGE SKILLS

This appendix contains the computations for the percentages of listening, speaking, reading and writing involved in each cluster.

Some clusters have two sets of computations because some Task Prioritization Forms were received after original computations and had to be added on.

PERCENTAGE LANGUAGE SKILLS
NOS 82c

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FOR	LISTENING	SPEAKING	READING	WRITING
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
FIRST AID	$12 \times 5 \times 15 = 900$ $\begin{array}{r} 90 \\ 95 \\ 53 \\ 78 \\ 94 \\ \hline 410 \end{array}$ $900 \sqrt{410.000} \quad .456$	$12 \times 2 \times 15 = 360$ $\begin{array}{r} 27 \\ 57 \\ \hline 86 \end{array}$ $360 \sqrt{86.000} \quad .239$	$12 \times 3 \times 15 = 540$ $\begin{array}{r} 12 \\ 50 \\ 61 \\ \hline 123 \end{array}$ $540 \sqrt{123.000} \quad .228$	$12 \times 4 \times 15 = 720$ $\begin{array}{r} 95 \\ 12 \\ 50 \\ 32 \\ \hline 189 \end{array}$ $720 \sqrt{189.000} \quad .262$
	46%	24%	23%	26%
NBC	$18 \times 5 \times 16 = 1440$ $\begin{array}{r} 133 \\ 136 \\ 93 \\ 111 \\ 151 \\ \hline 624 \end{array}$ $1440 \sqrt{624.000} \quad .433$	$18 \times 2 \times 16 = 576$ $\begin{array}{r} 42 \\ 112 \\ \hline 154 \end{array}$ $576 \sqrt{154.000} \quad .267$	$18 \times 3 \times 16 = 864$ $\begin{array}{r} 25 \\ 47 \\ 93 \\ \hline 165 \end{array}$ $864 \sqrt{165.000} \quad .191$	$18 \times 4 \times 16 = 1152$ $\begin{array}{r} 136 \\ 25 \\ 47 \\ 73 \\ \hline 281 \end{array}$ $1152 \sqrt{281.000} \quad .244$
	43%	27%	19%	24%
INDIVIDUAL FITNESS	$2 \times 5 \times 16 = 160$ $\begin{array}{r} 9 \\ 3 \\ 9 \\ 13 \\ 12 \\ \hline 46 \end{array}$ $160 \sqrt{46.000} \quad .288$	$2 \times 2 \times 16 = 64$ $\begin{array}{r} 2 \\ 8 \\ \hline 10 \end{array}$ $64 \sqrt{10.000} \quad .156$	$2 \times 3 \times 16 = 96$ $\begin{array}{r} 4 \\ 3 \\ 7 \\ \hline 14 \end{array}$ $96 \sqrt{14.000} \quad .146$	$2 \times 4 \times 16 = 128$ $\begin{array}{r} 3 \\ 4 \\ 3 \\ 6 \\ \hline 16 \end{array}$ $128 \sqrt{16.000} \quad .125$
	29%	16%	15%	13%

**PERCENTAGE LANGUAGE SKILLS
NOS 82C**

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FO	LISTENING	SPEAKING	READING	WRITING
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
PUBLIC INDIVIDUAL TECHNIQUES	$7 \times 5 \times 13 = 455$ 21 27 16 16 26 <u>106</u> $455 / 106.000 = 4.233$	$7 \times 2 \times 13 = 182$ 8 15 <u>23</u> $182 / 23.000 = 7.913$	$7 \times 3 \times 13 = 273$ 14 12 19 <u>45</u> $273 / 45.000 = 6.066$	$7 \times 4 \times 13 = 364$ 27 14 12 14 67 <u>120</u> $364 / 120.000 = 3.033$
	23%	13%	17%	18%
CAMOUFLAGE OSI 202-1001 OSI 202-1003	$2 \times 5 \times 13 = 130$ 12 8 12 11 15 <u>58</u> $130 / 58.000 = 2.241$	$2 \times 2 \times 13 = 52$ 3 7 <u>10</u> $52 / 10.000 = 5.200$	$2 \times 3 \times 13 = 78$ 2 4 5 <u>11</u> $78 / 11.000 = 7.090$	$2 \times 4 \times 13 = 104$ 8 2 4 5 19 <u>104</u> $104 / 19.000 = 5.473$
	45%	19%	14%	18%
SECURITY AND INTELLIGENCE	$6 \times 5 \times 13 = 450$ 19 25 17 17 26 <u>104</u> $450 / 104.000 = 4.231$	$6 \times 2 \times 13 = 180$ 16 22 <u>38</u> $180 / 38.000 = 4.736$	$6 \times 3 \times 13 = 270$ 6 9 22 <u>37</u> $270 / 37.000 = 7.300$	$6 \times 4 \times 13 = 360$ 25 6 9 17 57 <u>104</u> $360 / 104.000 = 3.461$
	23%	21%	14%	16%
				12

PERCENTAGE LANGUAGE SKILLS
MOS 82C

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FOR.	LISTENING	SPEAKING	READING	WRIT
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
COMMUNICATIONS	$16 \times 5 \times 15 = 1200$ 85 85 84 82 $1200 \sqrt{423.000}$ 87 423	$16 \times 2 \times 15 = 480$ 31 75 106 $480 \sqrt{106.000}$.221	$16 \times 3 \times 15 = 720$ 17 38 64 119 $720 \sqrt{119.000}$.165	$16 \times 4 \times 15 = 960$ 85 17 38 54 194 $960 \sqrt{194.000}$.20
	35%	22%	17%	20%
LAND NAVIGATION	$15 \times 5 \times 18 = 1350$ 130 120 144 139 $1350 \sqrt{710.000}$ 177 710	$15 \times 2 \times 18 = 540$ 31 97 125 $540 \sqrt{125.000}$.237	$15 \times 3 \times 18 = 810$ 70 129 197 396 $810 \sqrt{396.000}$.489	$15 \times 4 \times 18 = 1080$ 120 70 129 148 467 $1080 \sqrt{467.000}$.43
	52%	21%	49%	43%
MILITARY RIFLE	$5 \times 5 \times 15 = 375$ 47 34 40 41 76 198 $375 \sqrt{198.000}$.52	$5 \times 2 \times 15 = 150$ 11 19 30 $150 \sqrt{30.000}$.200	$5 \times 3 \times 15 = 225$ 15 7 18 42 $225 \sqrt{42.000}$.187	$5 \times 4 \times 15 = 300$ 34 15 7 16 74 $300 \sqrt{74.000}$.25
	53%	20%	19%	25%

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PERCENTAGE LANGUAGE SKILLS
MOS 82C

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = number of variables in the cluster
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$TR + (T)(V)(R) = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
LAW 071-318-2201 THRU 071-318-2203	$3 \times 5 \times 12 = 180$ 19 11 18 $180 / 82.000$ 17 17 82	$3 \times 2 \times 12 = 72$ 4 9 13 72 13.000	$3 \times 3 \times 12 = 108$ 5 3 9 17 108 17.000	$3 \times 4 \times 12 = 144$ 11 5 3 7 26 144 26.000
	46%	18%	16%	18%
GRENADES	$8 \times 5 \times 12 = 480$ 42 31 42 $480 / 188.000$ 38 35 188	$8 \times 2 \times 12 = 192$ 15 23 38 192 38.000	$8 \times 3 \times 12 = 288$ 14 9 24 47 288 47.000	$8 \times 4 \times 12 = 384$ 31 14 9 21 75 384 75.000
	39%	20%	16%	20%
MINES	$5 \times 5 \times 11 = 275$ 14 9 12 $275 / 59.000$ 13 11 59	$5 \times 2 \times 11 = 110$ 5 10 15 110 15.000	$5 \times 3 \times 11 = 165$ 5 5 11 21 165 21.000	$5 \times 4 \times 11 = 220$ 9 5 5 7 28 220 28.000
	22%	14%	13%	13%

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**PERCENTAGE LANGUAGE SKILLS
NOS 82C**

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\frac{TR + (T)(V)(R)}{TR} = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
VOLUME (1000000)	$21 \times 5 \times 14 = 1470$ $\frac{106}{84} \quad 1470 \overline{) 510.000} \quad .342$ $\frac{125}{82} \quad 510 \overline{) 113}$ $\frac{113}{510}$	$21 \times 2 \times 14 = 588$ $\frac{21}{76} \quad 588 \overline{) 97.000} \quad .165$ $\frac{97}{588}$	$21 \times 5 \times 14 = 882$ $\frac{28}{53} \quad 882 \overline{) 172.000} \quad .195$ $\frac{91}{172}$	$21 \times 4 \times 14 = 1176$ $\frac{84}{28} \quad 1176 \overline{) 240.000} \quad .2$ $\frac{53}{75} \quad 240 \overline{) 1176}$
	35%	17%	20%	20%
M60 MAGNETIC	$11 \times 5 \times 14 = 770$ $\frac{55}{53} \quad 770 \overline{) 256.000} \quad .332$ $\frac{52}{44} \quad 256 \overline{) 52}$ $\frac{52}{256}$	$11 \times 2 \times 14 = 308$ $\frac{14}{33} \quad 308 \overline{) 47.000} \quad .153$ $\frac{47}{308}$	$11 \times 5 \times 14 = 462$ $\frac{3}{4} \quad 462 \overline{) 147.000} \quad .147$ $\frac{147}{462}$	$11 \times 4 \times 14 = 616$ $\frac{53}{23} \quad 616 \overline{) 113.000} \quad .183$ $\frac{13}{24} \quad 113 \overline{) 616}$
	33%	15%	15%	18%
MEASURING MEASURING MEASURING	$20 \times 5 \times 18 = 1800$ $\frac{215}{171} \quad 1800 \overline{) 1007.000} \quad .559$ $\frac{180}{213} \quad 1007 \overline{) 1800}$ $\frac{228}{1007}$	$20 \times 2 \times 18 = 720$ $\frac{50}{120} \quad 720 \overline{) 170.000} \quad .236$ $\frac{170}{720}$	$20 \times 3 \times 18 = 1080$ $\frac{123}{106} \quad 1080 \overline{) 419.000} \quad .388$ $\frac{190}{419}$	$20 \times 4 \times 18 = 1440$ $\frac{171}{123} \quad 1440 \overline{) 509.000} \quad .354$ $\frac{106}{109} \quad 509 \overline{) 1440}$
	56%	24%	39%	35%
				127

PERCENTAGE LANGUAGE SKILLS
MOS 82C

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\frac{TR + (T)(V)(R)}{T} = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
ASTRONOMICAL OBSERVATIONS 061-302-1021 061-302-1023 061-302-1024	$3 \times 5 \times 18 = 270$ 35 29 37 37 44 $\frac{182}{182}$ $270 \overline{) 182.000}$.674	$3 \times 2 \times 18 = 108$ 8 $\frac{26}{34}$ $108 \overline{) 34.000}$.315	$3 \times 3 \times 18 = 162$ 23 24 46 $\frac{93}{93}$ $162 \overline{) 93.000}$.574	$3 \times 4 \times 18 = 216$ 29 23 24 26 $\frac{102}{102}$ $216 \overline{) 102.000}$.47
	67%	32%	57%	47%
RECORDING 061-302-1026 061-302-1027	$2 \times 5 \times 17 = 170$ 17 16 14 19 $\frac{24}{90}$ $170 \overline{) 90.000}$.529	$2 \times 2 \times 17 = 68$ 6 $\frac{18}{24}$ $68 \overline{) 24.000}$.353	$2 \times 3 \times 17 = 102$ 15 21 21 57 $\frac{57}{57}$ $102 \overline{) 57.000}$.559	$2 \times 4 \times 17 = 136$ 16 15 21 25 $\frac{77}{77}$ $136 \overline{) 77.000}$.566
	53%	35%	56%	57%
COMPUTATIONS WITH THE SR-56	$16 \times 5 \times 10 = 800$ 58 70 107 82 92 $\frac{409}{409}$ $800 \overline{) 409.000}$.511	$16 \times 2 \times 10 = 320$ 30 38 68 $\frac{68}{68}$ $320 \overline{) 68.000}$.213	$16 \times 3 \times 10 = 480$ 90 98 116 $\frac{304}{304}$ $480 \overline{) 304.000}$.633	$16 \times 4 \times 10 = 640$ 70 90 98 72 $\frac{330}{330}$ $640 \overline{) 330.000}$.516
	51%	21%	63%	52%
				124

**PERCENTAGE LANGUAGE SKILLS
NOS 82C**

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$TR + (T)(V)(R) = \%$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
MANUAL COMPUTATIONS	$17 \times 5 \times 17 = 1445$ 92 156 153 134 205 <u>740</u> $1445 \overline{) 740.000}$.512	$17 \times 2 \times 17 = 578$ 36 115 <u>151</u> $578 \overline{) 151.000}$.261	$17 \times 3 \times 17 = 867$ 104 195 196 <u>495</u> $867 \overline{) 495.000}$.571	$17 \times 4 \times 17 = 1156$ 156 108 195 159 <u>614</u> $1156 \overline{) 614.000}$.53
	51%	26%	57%	53%
GUN DIRECT- ION COMPUTATIONS	$8 \times 5 \times 3 = 120$ 8 8 8 8 <u>40</u> $120 \overline{) 40.000}$.333	$8 \times 2 \times 3 = 48$ 8 8 <u>16</u> $48 \overline{) 16.000}$.333	$8 \times 3 \times 3 = 72$ 72 <u>72</u> $72 \overline{) 24.000}$.333	$8 \times 4 \times 3 = 96$ 8 8 8 <u>32</u> $96 \overline{) 32.000}$.333
	33%	33%	33%	33%
MANUAL COMPUTATIONS	$7 \times 5 \times 18 = 630$ 37 41 31 34 43 <u>186</u> $630 \overline{) 186.000}$.295	$7 \times 2 \times 18 = 252$ 10 31 <u>41</u> $252 \overline{) 41.000}$.163	$7 \times 3 \times 18 = 378$ 20 24 49 <u>93</u> $378 \overline{) 93.000}$.246	$7 \times 4 \times 18 = 504$ 41 20 24 25 <u>110</u> $504 \overline{) 110.000}$.218
	30%	16%	25%	22%

125

APPENDIX 4

OBSERVATION FORMS

The attached forms were taken to the actual training where observers recorded actual training situations and language used in the training. These forms were used to indicate the CONDITIONS for the Job Language Performance Requirements in this MOS.

POS _____

PERSON RECORDING _____

LOCATION
(UNIT/AIT) _____

SUBJECT _____

* TASK NUMBER IF KNOWN _____

Physical Environment of Instruction

- A. Classroom
- B. Open Areas (live firefield- mark-up terrain)
- C. Large enclosed area (bleacher sites)
(Warehouse size)
- D. Other

Comments:

Styles of Communication Instructor, Verbal or

- A. Formal Speech
- B. Informal Speech
- C. Regional/Ethnic
- D. Body Language
- E. Profanity
- F. Shop talk/slang
- G. Non-standard English
- I. Other

Comments:

Media of Instruction

- A. Films
- B. Video cassettes
- C. Graphic Training Aids (diagrams, etc....)
- D. Illustrations (requiring reading/not requiring reading)
- E. Maps
- F. Mock-ups
- G. Models/Aimulate
- H. Real equipment
- I. Transparencies
- J. Tape cassettes
- K. Training Publications (required/available)
- L. Signs/Notices
- M. P.A. System
- N. Normal Voice
- O. Soldier's Manual
- P. Chalkboard
- Q. Other

Comments:

Mode of Response

- A. Manipulating a piece of equipment/de
- B. Answers (spoken - written)
- C. Signals
- D. Performance
- E. Taking Notes
- F. Teamwork
- G. Other

Comments:

Instructional Ratio

- A. Instructor, one-to-one/class
- B. Peer/one-to-one
- C. Group or Committee Group (group of instructors of whom one teaches one portion of the w
- Small (12 or less)
- Large (more than 12)
- D. Other

Questions

Comments:

APPENDIX 5

STRUCTURAL/LEXICAL LIST

Attached is the list of
structural and lexical items
for this MOS.
(For discussion, see Section II)

STRUCTURAL ITEMS

SENTENCE PATTERNS

SIMPLE: One subject and one predicate

1. Subject and action verb
Firer aims.
2. Subject and action verb and direct/indirect object
Many things cause burns.
3. Subject and linking verb and subjective complement
This is very important.

COMPOUND: Two or more sentences joined by:

1. Coordinating conjunction

Explain the task and ask the trainees if they understand the task, and the conditions they are expected to perform at the end of the session, the conditions under which they must operate, and the standard they must achieve.

2. Conjunctive adverb

Do not start or stop the vehicle while the radio is on or you may damage the set.

3. Semicolon

A light pressure is exerted on the driving spring when the bolt is forward; however, never attempt to cock the gun while the backplate is off and the driving spring assembly is in place.

COMPLEX: One or more dependent clauses

1. Adjectival (functions as an adjective by modifying nouns and pronouns)

At the bottom of the map you will find three different bar scales which will help you to change map distance to miles, meters, or yards.

2. Adverbial (functions as an adverb by modifying verbs, adjectives, and other adverbs) The mouth-to-nose method is performed in the same way except you blow into his nose while you pinch his lips closed with one hand.

3. Noun (functions as a noun) The person who is performing artificial respiration quickly blows into the casualty's lungs after each five compressions.

SENTENCE TYPES

1. INTERROGATIVE

(do, does, modal, wh-, tag, inverted)
But what about the other 15 meters?
Ask, "What is there?"

2. DECLARATIVE

Classified information will not be discussed over the telephone.

3. EXCLAMATORY

HALT!

4. IMPERATIVE

Issue the challenge in a soft voice and wait for the (requests, commands, second person (singular/plural, negative/affirmative), First and second person (let's)) stranger to reply with the correct password.

5. ELLIPSIS:

Split the bracket until fire for effect is possible. Most common type of ellipsis--subject deleted

6. FRAGMENT

Movement to occupy a position.
All other parts.

ADVERBIAL CLAUSES

1. PURPOSES

Training must be conducted so that at least 80% of the students can accomplish the task trained to the standards specified for the task.

2. CONTRAST

Although natural terrain features are likely not to change and make good reference points to orient a map, you may also use manmade features such as roads, bridges, etc., to orient your map.

3. COMPARISON

Place suitable material under him as well as over him if necessary.

4. RESULT

Blending is the use of camouflage materials on, over, and around an object so that it appears to be part of the background.

5. MANNER

Take deep breath and place mouth around soldier's mouth; then blow forcefully as you observe his chest.

6. TIME

When you have to go a certain distance on foot without any landmarks to guide you, you can measure distance pretty accurately by counting your paces.

Split the bracket until fire for effect is possible.

7. PLACE

Loosen clothing at neck, waist, and other places where it tends to bind.

8. CAUSE

Be careful not to depress the trigger, since this will cause the firing pin to be released.

9. ADVERSATIVE

The casualty has no fractures, but has a bleeding wound.

10. CONDITION

If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.

PHRASES

1. GERUND

(upon) Hearing the correct password, give permission to pass if you have no other reasons to doubt.

2. PARTICIPIAL

Using a straightedge draw a line between the two objects.

3. INFINITIVE

To camouflage exposed skin paint the shiny areas with a dark color.

4. PREPOSITIONAL

Under certain light conditions, front sight ports can be seen, but you can't determine whether you are looking through, above, or to the side of the rear sight aperture.

LEXICAL ITEMS

ADJECTIVALS

"rifle bore cleaner"
"waste material"
"burning residue"
"semi-fixed ammunition"
"extracting/loading ammunition"
"firing hammer"
"four life-saving steps"
"chest/heart massage"
"tourniquet material"
"field material"
"field condition"
"mouth-to-mouth resuscitation"

ADJECTIVES

1. WORD + ABLE

AVAILABLE

2. COMPARATIVES

Threat main tanks are smaller than the US main battle tanks.

3. SUPERLATIVES

The most dangerous targets are those that see you, have the capability of killing you, and appear to be preparing to engage you.

PRONOUNS

1. INDEFINITE

Have someone walk the FDL (if enemy situation permits), and determine dead space (sections of FDL where individual drops below line of sight).

2. POSSESSIVE

Shake his shoulder and shout, "Are you OK.?"

3. SUBJECTIVE

This will give you correct nomenclature.

4. OBJECTIVE

It will also give you the correct functioning.

5. REFLEXIVE

Keep yourself clear of the muzzle.

VERBS

1. VERB TENSES

Make sure you clearly understand the task you are to teach.

--You will be tested.

--If they elect to take it, they must complete the test once they have begun the first event or else they will receive a NO GO for the entire test.

--If the soldier is breathing, mouth-to-mouth resuscitation is not necessary.

--When all 10 pebbles have been moved to the left pocket, you have traveled one kilometer.

--Have someone walk the FDL and determine dead space.

--Sensing is an instantaneous determination by the grenadier as to where the grenade exploded.

present progressive verb
present verb (uninflected, third
person, indicative)
past tense (regular/irregular)
present perfect
future

2. TYPES

intransitive
(You) train for results.

transitive
Mask the casualty.

linking
The skin becomes inflamed.

3. VOICE

active

recognize
protect
is facing
remove
explode
sounds
points out
seen

appear
seek
secure
wear
mask
stored
do require
could affect

has
must be
wipe
rinse
put brush
empty
reassemble
reinstall

137

passive

given
is protected
is sprayed

are alerted
are reported
have been corrected

are authorized
be corrected

passive+verb+ing
"task will be performed
using procedures"
modal+passive voice
"can be determined"
modal+negative+passive
"must not be eliminated"

4. MODALS

You must demonstrate, once every 6 months, that you can meet or exceed the minimum level of physical fitness required of each member of your unit in accordance with the standards contained in AR 600-9.

Personnel over the age of 40 may elect not to take the APFT. The pulse should be found in the soft area between the Adam's apple and the large muscle on the side of the neck.

Injury or death could result.

During surveillance the operator will have to adjust the range focus to get a sharp image at different ranges.

"might have to be placed"
"be"
"will be given"
"should be"
"must"
"must be"
"can"
"can be"
"may be"
"should not be"

5. AUXILIARIES

(do, does, negative)

Do not zero in under 100 meters.

If the round does not fall within 5 meters of target, zeroing procedures are called for.

GERUNDS

Sensing is an instantaneous determination by the grenadier as to where the grenade explodes with respect to the target.

INFINITIVES

To fire, hold the M16A1 in the rest with your right shoulder firmly against the weapon's butt plate.

ADVERBS +

1. SUPERLATIVE

When such a line of fire exists, the primary sector will be assigned, based on it, with the FDL being the sector limit closest to the friendly troops.

2. INDEFINITE

The launcher has a heavy coat of oil on working parts, and a light coat of oil elsewhere.

3. FREQUENCY

Apply a little graphite grease to the threads of the antenna section for easy removal and to prevent the sections from seizing if they have been rarely removed.

4. OTHER

Assembly procedure for the grenade launcher merely reverses disassembly steps.

5. COMPARATIVE

The care, cleaning, lubrication and adjustment of the mount used with the gun are no less important.

VERBS AND PREPOSITIONS

Line up the key in the receptacle with the slot in the cable connector.

VERBS AND ADVERB (particles)

Put on the protective mask within nine seconds of the chemical alarm and remain in the contaminated area for at least two minutes without making further adjustments to the mask.

APPENDIX 6

VOCABULARY (DLIELC IN-HOUSE)

The following vocabulary list was extracted from the Soldier's Manual task by task and then categorized into GENERAL, BASIC AND TECHNICAL vocabulary.

NOT APPLICABLE

REF: On 15 MAY 1981 agreement between
TRADOC and DLIELC was reached
that DLIELC In-House Vocabulary
would not be produced for this
MOS.

APPENDIX 7

Appendix 7 is the machine-generated vocabulary list. It was not useful for our purposes. It is included as a vocabulary reference.

HEADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

DATA CONTROL NUMBER

Job No / Page No

2020

AUG 21 1980

WF
DLI



MOS-82C-St. 11-1

135

WORDS	COUNT1	COUNT2	WORDS	COUNT1	COUNT2
11	2	1	11	4	1
12	1	1	12	6	1
13	1	1	13	1	1
14	3	1	14	1	1
15	8	1	15	1	1
16	13	1	16	1	1
17	2	1	17	1	1
18	2	1	18	1	1
19	19	1	19	1	1
20	1	1	20	1	1
21	1	1	21	1	1
22	1	1	22	1	1
23	1	1	23	1	1
24	1	1	24	1	1
25	1	1	25	1	1
26	1	1	26	1	1
27	1	1	27	1	1
28	1	1	28	1	1
29	1	1	29	1	1
30	1	1	30	1	1
31	1	1	31	1	1
32	1	1	32	1	1
33	1	1	33	1	1
34	1	1	34	1	1
35	1	1	35	1	1
36	1	1	36	1	1
37	1	1	37	1	1
38	1	1	38	1	1
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42	1	1	42	1	1
43	1	1	43	1	1
44	1	1	44	1	1
45	1	1	45	1	1
46	1	1	46	1	1
47	1	1	47	1	1
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82	1	1	82	1	1
83	1	1	83	1	1
84	1	1	84	1	1
85	1	1	85	1	1
86	1	1	86	1	1
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88	1	1	88	1	1
89	1	1	89	1	1
90	1	1	90	1	1
91	1	1	91	1	1
92	1	1	92	1	1
93	1	1	93	1	1
94	1	1	94	1	1
95	1	1	95	1	1
96	1	1	96	1	1
97	1	1	97	1	1
98	1	1	98	1	1
99	1	1	99	1	1
100	1	1	100	1	1

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

46 C	1 C-2	1 C-0	6 CABLE
4 CARLES	1 CAGE	1 CALCULATED	12 CALCULATOR
1 CALIBRATION	3 CALL	1 CALLED	7 CAN
2 CARBON	2 CANNOT	2 CANVAS	1 CAP
1 CAPS	1 CAREFUL	3 CAREFULLY	1 CARRY
7 CARRYING	13 CASE	1 CAUSE	1 CCM
10 CELESTIAL	20 CENTER	14 CENTERED	1 CENTERS
1 CENTIMETERS	7 CHAIN	7 CHANGE	12 CHANNEL
1 CHARACTERS	35 CHAP	2 CHARACTER	4 CHARACTERISTICS
1 CHARACTERS	1 CHARGED	27 CHECK	4 CHIEF
1 CHURCH	54 CHURCH	3 CHURCH	2 CIRCUIT
1 CIRCULAR	7 CLAMP	1 CLAMPED	6 CLIPPING
2 CLAPPS	1 CLEAR	3 CLEAR	7 CLOCKWISE
6 CLOSE	1 CLOSED	3 CLOSEST	7 CLOSING
2 CLUSURE	1 CLR	3 COINCIDENCE	3 COLLAPSE
5 COLLIMATION	2 COLUMN	1 COME	1 COMES
2 COMFORTABLE	3 COMMAND	1 COMMON	4 COMMUNICATION
2 COMMUNICATIONS	6 COMPARE	2 COMPARE	1 COMPARING
3 COMPASS	13 COMPLETE	4 COMPLETED	3 COMPLETES
1 COMPLETING	1 COMPONENTS	3 COMPUTATION	2 COMPUTATIONS
26 COMPUTE	3 COMPUTED	2 COMPUTER	1 COMPUTING
32 CONDITIONS	3 CONDUCT	0 CONNECT	1 CONNECTED
3 CONNECTOR	1 CONSISTING	1 CONSISTS	1 CONSTANT
1 CONSULT	10 CONTACT	1 CONTAINER	1 CONTAINERS
1 CONTAINERS	4 CONTINUE	1 CONTINUED	20 CONTROL
2 CONTROLS	1 CONVENIENT	1 CONVERGENCE	1 COORDINATE
13 COORDINATES	2 COPY	6 COPYRIGHT	1 CORD
2 CORNERS	13 CORRECT	2 CORRECTION	7 CORRECTLY
1 COULD	2 COUNT	2 COUNTDOWN	1 COUNTED
3 COUNTER	3 COUNTERCLOCKWISE	1 COUNTING	17 COVER
1 COVERED	3 COVERS	2 CREEPING	1 CROSS
1 CRUSSED	1 CROSSHAIR	1 CROSSHAIRS	1 CROSSLINES
1 C	1 C2A	31 0	23 DA
1 DANGER	23 DATA	1 DATE	1 DAY
3 DC	3 DECIMAL	1 DECLINATE	0 DECLINATION
1 DECREASE	1 DEEPEN	1 DEFLECT	4 DEFLECTION
1 DEPLETS	3 DEPENDING	2 DEPOT	3 DEPRESS
1 DESCRIPTION	1 DESCRIPTIONS	9 DESIGNATED	5 DESIRED
3 DETACH	1 DETECTED	1 DETERMINATION	26 DETERMINE
10 DETERMINED	1 DEVIAITON	12 DEVIATION	3 DEVIATIONS
3 DEVICE	1 DIAGONAL	1 DIAGONALS	1 DIAGRAM
1 DIAL	11 DIFFERENCE	6 DIFFERENCES	3 DIFFERENT
4 DIGIT	1 DIGITAL	6 DIGITS	15 DIRECT
2 DIRECTED	19 DIRECTION	1 DIRECTIONAL	6 DIRECTLY
1 DISCAMBER	5 DISCONNECT	1 DISCREPANCIES	2 DISCUSSED
1 DISPLAY	4 DISPLAY	20 DISPLAYED	1 DISREGARD
46 DISTANCE	9 DISTANCES	3 DISTANT	1 DISTURB
1 DIV	4 DIVIDE	2 DIVIDING	2 DIVISION
2 DIVISIONS	2 DM-60	5 DME	8 DO
5 DUES	2 DOING	1 DOME-SHAPED	4 DOT

4 DUE	1 DOVETAIL	8 DOWN	1 DOWNSLOPE
3 DUAL	2 DRIVE	4 DROP	4 DS
1 DUE	6 DURING	1 DUST	33 E
1 E-1	1 E-4	17 EACH	1 EAR
1 EASILY	1 EASTING	3 ECU	6 EDGE
5 EF	6 EFFECT	3 EITHER	3 ELECTRICAL
7 ELECTRONIC	18 ELEMENT	2 ELEMENTS	2 ELEVATION
4 ELIMINATE	3 EMBED	1 EMBEDDED	1 ENPLACED
1 E-CLACK	37 END	4 ENDS	1 ENGAGEMENT
2 ENOUGH	15 ENTER	1 ENTERED	1 ENTERING
2 ENTRIES	30 ENV	2 EOL	1 EQUALLY
4 EQUIPMENT	1 EQUIPPED	1 ERASING	3 ERECT
1 EPRO-FOLS	33 ERROR	6 ESTABLISH	8 ESTABLISHED
1 ESTABLISHES	1 ESTABLISHING	2 ESTABLISHMENT	4 ESTIMATE
2 ESTIMATED	1 ETC	1 EVENT	1 EVERY
6 EXACTLY	6 EXAMPLE	1 EXCEED	1 EXCEEDS
4 EXCEPT	1 EXCHANGE	1 EXERT	2 EXPONENTS
1 EXPRESS	4 EXTEND	2 EXTENDED	1 EXTENDS
1 EXTERNAL	2 EXTRACT	2 EYEPIECE	19 F
3 F2	1 FACE	7 FACTOR	1 FAHRENHEIT
1 FASTENERS	3 FDC	1 FEATURES	57 FIELD
108 FIGURE	9 FIGURES	1 FILL	1 FILLED
1 FILTER	9 FINAL	7 FIND	2 FINGER
30 FIR	10 FIRE	1 FIRING	4 FIRMLY
34 FIRST	1 FIX	5 FIXED	6 FIXING
12 FLANK	4 FLASH	1 FLASH-TO-BAND	1 FLASHING
1 FLUSH	30 FM	11 FOCUS	1 FOLD
4 FULLUM	1 FOLLOWED	12 FOLLOWING	3 FOLLOWS
1 FOOT	2 FOOTBALL	89 FOR	29 FORM
1 FURNS	1 FURTH	28 FORWARD	2 FOUND
2 FLOP	3 FOURTH	3 FREE	1 FREQUENCIES
22 FREQUENCY	1 FRIENDLY	49 FROM	14 FRONT
1 FT	7 FULL	2 FULLY	3 FUNCTION
1 FLAMISHED	1 FURTHER	1 FUZE	2 FWD
21 G	1 G-0	1 GC	2 GENERAL
1 GENTLY	2 GET	5 GIVE	43 GIVEN
1 GIVES	2 GD	1 GOES	1 GOOD
1 GRADIENT-DEGREE	8 GRADUATION	1 GRADUATIONS	2 GRAPH
1 GRASP	1 GRADUATION	2 GREATER	2 GREEN
11 GRID	11 GROUND	1 GRU	2 GS
2 GUIDE	1 GUSTS	17 GYRO	1 GYRC/SYNC
13 H	1 H-14	1 H-8	4 HALF
1 HALF-WAY	3 HAND-HELD	6 HANDBOOK	1 HANDLE
2 HANDLES	1 HANG	1 HARD	8 HAS
2 HASTY	1 HAVE	1 HE	14 HEAD
4 HEADSET	1 HEARING	3 HEATER	14 HEIGHT
2 HELD	2 HERTZ	1 HI	4 HIGH
1 HIGH-LBW	3 HIGHER	1 HIM	3 HIS
1 HUB	1 HOLDDOWN	4 HOLDING	79 HORIZONTAL
1 HORIZONTAL/VERTICAL	3 HOUR	2 HOW	1 HOWEVER

3 HUB	1 HUBS	1 HUNORED	31 I
1 IDENTIFIABLE	2 IDENTIFICATION	14 IDENTIFIED	2 IDENTIFY
16 IF	15 II	0 III	1 ILLUM
2 ILLUMINATE	2 ILLUMINATED	7 ILLUMINATION	3 IMAGE
1 IMMEDIATELY	3 IMPACT	2 IMPACTS	104 IN
6 IIC	3 INCH	2 INCLUDE	4 INCORRECT
1 IICREASE	1 INDEPENDENTLY	6 INDEX	1 INDICATE
1 IIDICTED	3 INDICATOR	1 INDIRECT	2 INFORM
1 IIDICATION	15 INITIAL	3 INITIATE	30 INP
1 IIPUT	1 INSCRIBED	1 INSERTING	1 INSIDE
2 INSTALL	4 INSTALLED	3 INSTANT	2 INSTRUCT
63 INSTRUMENT	6 INSTRUMENTS	2 INSUFFICIENT	20 INSURE
30 INT	1 INTERCONNECT	4 INTERIOR	1 INTERPOLATING
1 INTERRUPTION	1 INTERSECT	1 INTERSECTION	1 INTERVIEWS
16 INTFL	1 INTRO	1 INTRODUCTION	1 INV
3 IIX	3 IR	129 IS	6 ISSUED
33 IT	1 ITEMS	7 ITS	5 IV
6 J	31 JUS	1 JUST	6 K
2 KEEP	1 KEEPING	24 KEY	1 KIT
18 KICOR	3 KNUBS	1 KNOWING	31 KNOWN
5 KUCPAR	5 L	1 LANCE	1 LARGE
1 LARGER	30 LAS	3 LAST	1 LATCHES
2 LATERAL	5 LATITUDE	1 LAYS	4 LEAST
2 LEATHER	1 LEAVE	17 LEFT	7 LEG
17 LEGS	6 LENGTH	1 LENS	6 LESS
21 LFSSJM	1 LETTERS	20 LEVEL	15 LEVELED
5 LEVELING	6 LIGHT	2 LIGHTLY	2 LIGHTS
4 LIGHTWEIGHT	2 LIKENISE	13 LINE	1 LINES
1 LISTED	1 LISTEN	6 LOCATE	2 LOCATED
22 LOCATION	1 LOCATIONS	9 LOCK	1 LOCKED
4 LOCKS	3 LOG	2 LOGARITHMS	1 LOGGED
2 LOGS	2 LONG	3 LOUSEN	1 LOSS
1 LOST	2 LOW	12 LOWER	24 LOWEST
4 M	2 M-1	3 M-2	1 M-6
2 MADE	9 MAGNETIC	6 MAINT	1 MAINTAIN
2 MAINTENANCE	1 MAKE	1 MANDATORY	6 MANNER
7 MANUAL	2 MANY	11 MAP	1 MAP-TERRAIN
30 MARK	14 MARCH	36 MARK	3 MARKED
1 MARKER	1 MARKERS	1 MARKING	1 MARKS
3 MASS	16 MASTER	1 MATCH	2 MATCHES
1 MAXIMIZED	1 MAXIMUM	9 MAY	1 MC-8
22 MEAP	47 MEASURE	1 MEASURE-TALK	18 MEASURED
7 MEASUREMENT	11 MEASUREMENTS	16 MEASURER	33 MEASURES
6 MEASURING	1 MEET	1 MELT	35 METER
29 METEAS	14 METHOD	1 METHODS	17 MICROMETER
3 MICROSCOPE	1 MIDSCALE	60 MIL	2 MILES
28 MILS	3 MINIMUM	6 MINUS	29 MINUTES
9 MINIMUP	1 MIRRORS	1 MISSION	2 MISTAKE
2 MLD	5 MODE	3 MODEL	15 MONITOR
5 MORE	2 MUST	24 MOTION	1 MOUNT

3 HGV	2 MOVES	4 MOVING	1 MUCH
52 MUL	1 MULTIPLICATION	4 MULTIPLY	1 MULTIPLYING
1 M2-M1	6 MW	2 M1	15 M2
1 M2-M2	1 M3-M1	2 M3	3 M6
2 NAMES	4 N	30 NAM	1 NAME
3 MELOLE	25 NEAREST	6 NECESSARY	1 NEEDED
1 MEAT	1 NEEDS	5 NEGATIVE	6 NEW
1 MEAT-INTERVISIBLE	9 NIGHT	6 NO	2 NOISE
1 NORMALLY	2 NONRECORDING	3 NORMAL	2 NORMAL/SHORT
2 MUTATION	5 NORTH	1 NORTHING	24 NOT
2 NOTES	4 NOTE	9 NOTEBOOK	1 NOTEBOOKS
1 NUMBERED	2 NOTIFY	2 NULL	20 NUMBER
1 OBJECT	11 NUMBERS	1 NUT	3 O
2 OBSERVATIONS	1 OBJECTIVE	12 OBSERVATION	1 OBSERVATION/VIDEO
1 OBSERVER'S	5 OBSERVE	3 OBSERVED	3 OBSERVER
2 OBTAINED	2 OBSERVERS	3 OBSERVING	16 OBTAIN
1 ODU	1 OBTAIN	1 OBVIOUSLY	3 OCCUPIED
2 OPTITTED	235 OF	7 OFF	2 OFF-ON
4 ONCE	140 ON	1 ON--BATTERY	3 ON-CFF-STANCOV
6 ONLY	21 ONE	1 ONE-HALF	1 ONE-POSITION
6 OPERATIONS	1 ONTO	0 OP	7 OPEN
6 OPPOSITE	2 OPERATE	2 OPERATING	5 OPERATION
61 OK	15 OPERATOR	3 OPERATORS	3 OPPORTUNITY
3 ORGAN	5 OPS	1 OPTICAL	1 OPI
6 OT	21 ORDER	1 ORDERING	3 ORG
41 OVER	2 ORGANIZATIONAL	6 ORIENT	9 ORIENTING
3 PMCK	10 OTHER	36 OUT	2 OUTLET
3 PANEL	1 OVERLAP	6 OMERIS	5 P
1 PARAGRAPHS	2 PAD	11 PAGE	2 PAGES
1 PARTIALLY	32 PAP	45 PARA	3 PARAGRAPH
1 PASSED	3 PARALLAX	11 PART	7 PARTIAL
1 PENCILS	3 PARTIES	1 PARTS	5 PARTY
32 PERFORMANCE	3 PATTERN	1 PEAK	7 PENCIL
1 PERPENDICULAR	2 PER	1 PERFECTLY	16 PERFORM
13 PUS	4 PERFORMED	1 PERFORMING	1 PERMITTED
1 PLA	3 PERSHING	1 PERSONNEL	27 PG
1 PLACING	3 PICK	9 PIN	5 PINS
2 PLUT	30 PLACE	3 PLACED	4 PLACES
5 PLUMGE	2 PLANE	1 PLAMS	4 PLATE
2 POINT/SET	2 PLUG	17 PLUMB	8 PLUMBED
6 PLIPTS	4 PLUS	5 POINTING	57 POINT
1 PLIARITY	10 POINTER	8 POLARIS	1 POINTINGS
1 POSITIONED	3 POLE	3 POLES	2 POLARIS-KCCPAB
2 PUSSIBLE	10 POSITIONS	3 POSITIVE	33 POSITION
2 PREARRANGED	5 POST	2 POUNDS	1 POSSESSION
1 PREFIX	1 PRECEDING	1 PRECISELY	12 POWER
3 PRESS	1 PREPARE	1 PREPARED	7 PREDETERMINED
1 PRINTING	3 PRESSURE	1 PREVIOUSLY	2 PRESENT
	1 PRIOR	1 PRISM	30 PRI
			1 PRISMS

1 PROBLEM 2 PROBLEM 22 PROCEURAL 9 PROCEDURE
5 PROCEURES 1 PROCESS 23 PROCEAL 1 PRODUCE
5 PROCEHAM 6 PROPER 25 PROPERLY 2 PROTRACTOR
4 PROVINE 3 PROVIDED 3 PULL 29 PUSH
1 PUSHING 1 PUT 2 Q 30 QUA
1 QUALIFIED 2 R 1 RADIO 1 PALS
24 RANGE 1 RANGE/1000 1 RAPIDLY 4 RATIO
25 RADINGS 1 REACHED 23 READ 41 READING
1 REALIGN 2 READOUT 12 READS 6 READY
1 RECEPTACLE 26 RECORD 1 RECEIVE 3 RECEIVED
1 RECEPTIS 8 RECORDING 4 RECORDED 59 RECORDER
1 REEL 1 REENTER 1 RED 1 REDUCE
3 REFLR 19 REFERENCE 1 REENTERING 2 REESTABLISH
4 REFLECTOR 1 REFLECTORS 19 REFERENCES 1 REFINEMENT/SURVEILLANCE
7 RELEASE 4 RELIEF 2 REG 1 REGISTRATION
2 REMAHS 2 REMARKS 1 REMAIN 2 REMAINING
3 REMULL 2 REPAIR 3 REASURE 14 REMOVE
1 REPEATED 2 REPEATING 6 REPLACE 22 REPEAT
1 REPLITTING 10 REPORT 3 REPORTING 1 REPLACED
12 REQUIRED 3 REQUIRES 1 RESECTION 1 REQUEST
1 RESOLVE 7 RESOLVED 1 RESPECTIVELY 3 RESEY
1 RESPONDERIS 2 RESPONSIBLE 1 RESULT 15 RESPONDER
1 RETAILING 1 RETAPE 7 RETICLE 1 RESULT 1 RESULTS
3 RETURA 2 REV 25 REVERSE 1 RETICULE 2 RETIGHTEN
1 RI 15 RIGHT 1 RIGHT-HAND 1 RIVET 1 REVERSE-SLOPE
2 RCU 3 ROOT 13 ROTATE 1 RIVET 2 ROTATING
2 ROTATION 1 ROUGHLY 6 ROUND 1 ROUNDED
2 ROUNDING 5 ROUNDS 1 RUN 1 R1
2 R5 3 R6 1 1 5
10 SAME 4 SAMPLE 1 SAMPLES 30 SCA
36 SCALE 1 SCALED 12 SCALES 2 SCHEME
3 SCOPE 1 SCREEN 12 SCREEN 4 SCREWS
1 SEARCH 38 SEC 21 SECOND 7 SECONDS
1 SEEN 10 SECURE 8 SEDME 65 SEE
1 SELF 10 SELECT 3 SELECTED 4 SELECTOR
1 SERIAL 20 SENSING 2 SENSITIVITY 6 SEQUENCE
7 SETS 1 SERVES 2 SEAVD 116 SET
1 SHAPE 14 SETTING 1 SETTINGS 1 SETTLE
14 SHIFT 1 SHARP 2 SHEET 2 SHELTER
1 SHJHS 3 SHORT 9 SHOULD 3 SHOWN
37 SIGHT 6 SIAGL 8 SIDE 6 SIG
3 SIGNAL 2 SIGHTING 1 SIGHTS 3 SIGN
2 SIN 9 SINGLE 2 SITUATION 6 SIMILTANECUS
2 SKETCHES 1 SLACK 2 SLIDE 1 SKETCH
8 SLOPE 1 SLOPES 3 SLOWLY 4 SLIGHTLY
1 SNAP 14 SU 2 SOLAR 1 SMALLER
1 SOLDIER 1 SOLELY 3 SOLUTION 2 SOLDER
1 SOUND 1 SOUNDS 10 SOURCE 2 SOLVE
1 SPACE

1 SPA	1 SPAN	3 SPARE	1 SPECIAL
2 SPE	1 SPECIFICATIONS	1 SPECIFIED	2 SPEED
1 SPLIT	1 SPLITTING	2 SPOT	2 SPOTTING
2 SREAD	6 SQUARE	2 SQUARED	1 SQUARELY
19 SR-50	1 STABLE	2 STAKE	1 STAKES
3 STANDARD	30 STANDARDS	1 STANDBY	6 STAR
4 STAFF	116 STATION	3 STATIONIS	16 STATIONS
2 STAY	2 STAYS	1 STEADY	3 STEEL
2 STEP	25 STEPS	2 STICK	2 STILL
1 STU	5 STOP	1 STOPPED	1 STOPPING
1 STUFFS	1 STORAGE	2 STORE	1 STORED
1 STRAIGHT	2 STRAP	1 STRESS	1 STRAING
1 STRUGGER	2 STRONGEST	2 STUCK	1 SUBSEQUENT
3 SUBTENDED	5 SUBTENSE	7 SUBTRACT	2 SUBTRACTED
1 SUBTRACTING	1 SUBTRACTION	1 SUCCEEDING	1 SUCH
3 SUM	7 SUN	1 SUPPLY	3 SUPPLRT
57 SURVEY	1 SURVEYED	6 SURVEYING	2 SURVEYORS
1 SWING	46 SWITCH	2 S-ITCHES	1 SYSTEM
1 T	1 T-16	2 T-2	1 TA-312/PT
32 TAB	4 TABLE	1 TACK	2 TACTICAL
1 TAG	1 TAGS	12 TAKE	3 TAKEN
2 TAKING	2 TALK	2 TANGENT	38 TAPE
3 TAPED	1 TAPELENGTH	30 TAPEMAN	4 TAPENEN
11 TAPING	52 TARGET	4 TARGETS	8 TASK
1 TC	21 TEC	1 TECHNIQUES	21 TELESCOPE
2 TELESCOPE'S	1 TELL	1 TEMPERATURE	1 TENSION
1 TERRAIN	6 TEST	1 TESTING	6 TEXAS
16 THAP	93 THAT	1390 THE	6 THEIR
3 THEN	12 THEN	2 THEN	43 THECDOLITE
3 THECDOLITE	1 THECDOLITE'S	3 THERE	1 THESE
6 THEY	4 THIRD	23 THIS	1 THUNG
1 THINGS	8 THOSE	2 THOUSAND	1 THREAD
6 THREE	2 THREE-DIGIT	27 THROUGH	2 THROUGHOUT
28 THAU	1 TI	1 TIED	2 TIGHT
0 TIGHTEN	12 TIME	1 TIMES	5 TIP
11 TP	368 TO	3 TOGETHER	3 TOLD
3 TUNE	1 TOUL	3 TOP	1 TOTAL
1 TOUCHING	7 TOWARD	1 TRACK	9 TRACKING
1 TRADMARK	1 TRAINED	7 TRANSMIT	2 TRANSMITTED
1 TRAILSPURT	1 TRAVEL	14 TRAVERSE	15 TRIANGLE
4 TRIANGLES	4 TRIANGULATION	1 TRIPLE	53 TRIPPOD
1 TRUCKS	2 TRUE	1 TS-1	1 TS-2
1 TRUCKER	3 TUNE	3 TUNING	17 TURN
2 TURNED	1 TURNING	2 T-ICE	35 TWO
2 TWO-POSITION	5 TYPE	1 TYPES	1 TUB
3 12/16	2 UNCAGE	1 UNDER	8 UNIT
0 UNITS	2 UNIVERSAL	2 UNKNOWN	1 UNLESS
1 UNLICK	1 UNSCREW	2 U-STRAP	29 UNTIL
50 UP	1 UP/MARCH	3 UPON	13 UPPER
15 USE	13 USED	45 USING	1 UTM

MSB WORD LISTING/ASCENDING SEQUENCE

COUNT2 WORD2

COUNT1 WORD1

COUNT4 WORD4

COUNT3 WORD3

1 V	1 VALID	12 VALUE	3 VALUES
4 VALVE	2 VEHICLE	1 VERIFY	7 VERNIER
56 VERTICAL	1 VIAL	1 VIALS	1 VICE-VERSA
1 VICINITY	2 VIEW	29 VISIBLE	1 VISUALLY
1 VOID	1 VOIDED	2 VOLT	2 VOLTAGE
1 VLLUMP	6 WAIT	1 WARM-UP	1 WARNING
2 WAS	1 WATCH	2 WAY	2 WEATHER
1 WEST	2 WHAT	1 WHATEVER	22 WHEN
6 WHERE	2 WHETHER	12 WHICH	2 WHILE
144 WILL	4 WIND	2 WINDOD	2 WINDS
1 WING	2 WIRE	76 WITH	60 WITH-IN
37 WITHOUT	1 WITHSTAND	2 WITNESS	2 WOODEN
1 WORD	1 WORK	2 WORKING	1 WOULD
1 WRIST	16 X	3 Y	1 YARDS
	98 YU	15 YOUR	10 ZERO

WORD LISTING/DESCENDING FREQUENCY

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COUNT2 WORD2

COUNT4 WORD4

COUNT1 WORD1

1310 THE	360 TO	350 AND	297 A
235 UP	184 IN	169 BE	144 WILL
140 ON	129 IS	116 SET	116 STATION
108 FIGURE	98 YOU	87 #1	85 FOR
84 AZINUTH	79 HORIZONTAL	76 WITH	65 8
65 SEE	63 INSTRUMENT	61 OR	60 MIL
60 WITHIN	59 AT	59 BY	59 RECORDER
57 FIELD	57 POINT	57 SURVEY	56 IF
56 VERTICAL	54 CIRCLE	53 THAT	53 TRIPOD
52 MUST	52 TARGET	50 UP	49 FROM
47 MEASURE	46 C	46 DISTANCE	46 SWITCH
45 PARA	45 USING	43 GIVEN	43 THEODOLITE
41 OVER	41 READING	40 AIMING	40 ANGLE
40 AS	38 SEC	38 TAPE	37 END
37 SIGHT	37 WITHOUT	36 MARK	36 OUT
36 READINGS	36 SCALE	35 CHAP	35 METER
35 T.O	34 FIRST	34 RAUGE	33 AN
33 E	33 EKRJR	33 IT	33 MEASURES
32 POSITION	32 ABOVE	32 CONDITIONS	32 PAP
32 PERFORMANCE	32 TAN	31 D	31 I
31 JUS	31 KNOWN	30 ANGLES	30 ENV
30 FIK	30 FM	30 INP	30 INT
30 LAS	30 MAR	30 NAM	30 PLACE
30 PRI	30 QUA	30 SCA	30 STANDARDS
30 TAPEMAN	29 FURN	29 METERS	29 MINUTES
29 PLSH	29 UNTIL	28 ARTILLERY	28 FORWARD
28 LEVEL	28 MILS	28 REAR	28 THRU
27 ALL	27 CHECK	27 PG	27 THROUGH
26 COMPUTE	26 DETERMINE	26 RECORD	25 **
25 NEAREST	25 PROPERLY	25 REVERSE	25 STEPS
25 VISIBLE	24 KEY	24 LAMEST	24 MOTION
24 NOT	23 DA	23 DATA	23 HEAD
23 THIS	22 -	22 ANNOUNCE	22 FREQUENCY
22 LIGATION	22 MEAN	22 PROCEDURAL	22 REPEAT
22 WHEN	21 G	21 LESSON	21 ONE
21 UNDER	21 SECOND	21 TEC	21 TELESCOPE
20	20 ADJUST	20 BACK	20 CENTER
20 CONTROL	20 DISPLAYED	20 INSURE	20 NUMBER
20 SENSING	19 #NOTE	19 ACCURACY	19 DIRECTION
19 F	19 REFERENCE	19 REFERENCES	19 SR-56
18 AGREE	18 ARE	18 BETWEEN	18 ELEMENT
13 FINE	18 KNOB	18 MEASURED	17 APPROXIMATELY
17 CLEVER	17 EACH	17 GYRO	17 LEFT
17 LEGS	17 MICROMETER	17 PLUMB	17 TURN
16 HAVE	16 INTO	16 MASTER	16 MEASURER
16 OBTAIN	16 PERFORM	16 STATIONS	16 THAT
15 X	15 ANNOUNCED	15 ANSWER	15 DIRECT
15 ENTER	15 II	15 INITIAL	15 LEVELED
15 MONITOR	15 M2	15 OPERATOR	15 POLE
15 RESPONDER	15 NIGHT	15 TRIANGLE	15 USE

148

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COUNT1 WORD1

COUNT2 WORD2

COUNT3 WORD3

COUNT4 WORD4

15 VLUR	14 ADD	14 BCTH	14 CENTERED
14 FLUNT	14 HEAD	14 HEIGHT	14 IDENTIFIED
14 MARCH	14 METHOD	14 REMOVE	14 SETTING
14 SHIFT	14 SO	14 TRAVERSE	13
13 WHITE	13 AFTER	13 CASE	13 COMPLETE
13 COORDINATES	13 CORRECT	13 H	13 LINE
13 PCS	13 ROTATE	13 UPPER	13 USED
12 ADJUSTMENT	12 ATTACH	12 BODY	12 CALCULATOR
12 CHANNEL	12 DEVIATION	12 FLANK	12 FOLLOWING
12 LCHLA	12 OBSERVATION	12 POWER	12 READS
12 REQUIRED	12 SCALES	12 SCREW	12 TAKE
12 THEN	12 TIME	12 VALUE	12 WHICH
11	11 ASSIST	11 AZIMUTHS	11 BASE
11 DIFFERENCE	11 FOCUS	11 GRID	11 GROUND
11 MAP	11 MEASUREMENTS	11 NUMBERS	11 PAGE
11 PART	11 TAPING	11 TM	10 BUBBLE
10 CELESTIAL	10 CONTACT	10 DETERMINED	10 NEXT
10 OTHER	10 POINTER	10 POSITIONS	10 REPORT
10 SAME	10 SECURE	10 SELECT	10 SOURCE
10 ZERO	9 DESIGNATED	9 DISTANCES	9 FIGURES
9 FINAL	9 LOCK	9 MAGNETIC	9 MAY
9 MEASUREMENT	9 MIRROR	9 NIGHT	9 NOTEBOOK
9 ORIENTING	9 PIN	9 PROCEDURE	9 SHOULD
9 SINGLE	9 TRACKING	8	8 ALSO
8 AREA	8 BATTERY	8 BLOCKS	8 BOB
8 CONNECT	8 DECLINATION	8 DI	8 DOWN
8 ESTABLISHED	8 GRADUATION	8 HAS	8 III
8 MOVE	8 NEEDLE	8 ONLY	8 OP
8 OPPOSITE	8 PLUMBED	8 POLARIS	8 RECORDING
8 SCENE	8 SIDE	8 SLOPE	8 TASK
8 THOSE	8 TIGHTEN	8 UNIT	7 ABLE
7 ALTITUDE	7 BLOCK	7 CAN	7 CARRYING
7 CHAIN	7 CHANGE	7 CLAMP	7 CLOCKWISE
7 CLOSING	7 CORRECTLY	7 ELECTRONIC	7 FACTOR
7 FIND	7 FULL	7 ILLUMINATION	7 ITS
7 LFG	7 MANUAL	7 OFF	7 OPEN
7 PARTIAL	7 PENCIL	7 PREDETERMINED	7 RELEASE
7 RESOLVED	7 RETICLE	7 SECONDS	7 SETS
7 SUBTRACT	7 SUN	7 TOWARD	7 TRANSMIT
7 VERNIER	6	6 ANY	6 APPLIES
6 BEEN	6 BEING	6 BELOW	6 CABLE
6 CLIPPING	6 CLOSE	6 COMPARATIVE	6 COPYRIGHT
6 DIFFERENCES	6 DIGITS	6 DIRECTLY	6 DURING
6 EDGE	6 EFFECT	6 ESTABLISH	6 EXACTLY
6 EXAMPLE	6 FIXING	6 HANDBOOK	6 INC
6 INDEX	6 INSTRUMENTS	6 ISSUED	6 J
6 K	6 LENGTH	6 LESS	6 LIGHT
6 LOCATE	6 MAINT	6 MANNER	6 MEASURING
6 MINUS	6 MW	6 NECESSARY	6 NEW
6 MU	6 OPER	6 OPERATIONS	6 ORIENT

6 UT	6 OWNER'S	6 PLUS	6 POINTS
6 PAD	6 PROPER	6 READY	6 REPLACE
6 ROUND	6 SEQUENCE	6 STAGL	6 SIG
6 SIMULTANEOUS	6 SQUARE	6 STAR	6 SURVEYING
6 TEST	6 TEXAS	6 THEIR	6 THEY
5 THREE	6 UNITS	6 WAIT	6 WHERE
5	5 -----	5 ALIGNMENT	5 APPROPRIATE
5 REFERENCE	5 BIAS	5 COLLIMATION	5 DESIRED
5 DISCONNECT	5 DME	5 OGS	5 EE
5 EITHER	5 FIXED	5 GIVE	5 IV
5 KLCHEAB	5 L	5 LATITUDE	5 LEVELING
5 LUG	5 MODE	5 MORE	5 NEGATIVE
5 NLPIN	5 OBSERVE	5 OASERVER	5 OPERATION
5 UN-S	5 P	5 PARTY	5 PINS
5 PLURGE	5 POINTING	5 POST	5 PROGRAM
5 ROUNDS	5 S	5 SHOWN	5 STEP
5 STOP	5 SUBTENSE	5 TIP	5 TYPE
4	4	4	4 ***
4 **NOTE	4	4 ARC	4 ALIGN
4 ANOTHER	4 ANTILGG	4 APPLY	4 BINOCULARS
4 BRACKET	4 CABLES	4 CHARACTERISTICS	4 CHIEF
4 COMMUNICATION	4 COMPLETED	4 CONTINUE	4 DEFLECTION
4 DIGIT	4 DISPLAY	4 DIVIDE	4 DOOT
4 DOUBLE	4 DROP	4 DS	4 ELIMINATE
4 ENDS	4 EQUIPMENT	4 ESTIMATE	4 EXCEPT
4 EXTEND	4 FIRMLY	4 FLASH	4 FOLLOW
4 HALF	4 HEADSET	4 HIGH	4 HOLDING
4 INCARCERT	4 INSTALLED	4 INTERIOR	4 LEAST
4 LIGHTWEIGHT	4 LOCKS	4 M	4 MOVING
4 MULTIPLY	4 N	4 NOTE	4 ONCE
4 PERFORMED	4 PLACES	4 PLATE	4 PROVIDE
4 REED	4 RECORDED	4 REFLECTOR	4 RELIEF
4 SAMPLE	4 SCREWS	4 SELECTOR	4 SLIGHTLY
4 START	4 TABLE	4 TAPEN	4 TARGETS
4 THIRD	4 TRIANGLES	4 TRIANGULATION	4 VALVE
4 WIND	4	4	4
3 ACCURATE	3 ACCURATELY	3 ACROSS	3 ADDITIONAL
3 ALONG	3 AND/OR	3 ANNUITIES	3 ANTENNA
3 APPEARS	3 APPENDIX	3 BACKPLATE	3 BECAUSE
3 BRACKETING	3 BROKEN	3 CALL	3 CAREFULLY
3 CIRCLE	3 CLEAR	3 CLOSEST	3 COINCIDENCE
3 COLLAPSE	3 COMMAND	3 COMPASS	3 COMPLETES
3 COMPUTATION	3 COMPUTED	3 CONDUCT	3 CONNECTOR
3 COUNTER	3 COUNTERCLOCKWISE	3 COVERS	3 OC
3 DECIMAL	3 DEPENDING	3 DEPRESS	3 DETACH
3 DEVIATIONS	3 DEVICE	3 DIFFERENT	3 DISTANT
3 DRAWING	3 ECU	3 ELECTRICAL	3 EMBED
3 EXACT	3 FA	3 FOC	3 FOLLOWS
3 FLURTH	3 FREE	3 FUNCTION	3 HAND-HELD
3 MEATER	3 HIGHER	3 HIS	3 HOUR

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MOS WORD LISTING/DESCENDING FREQUENCY

COUNT1 WORD1 COUNT2 WORD2 COUNT3 WORD3 COUNT4 WORD4

3 HUB	3 IMAGE	3 IMPACT	3 INCH
3 INDICATOR	3 INITIATE	3 INSTANT	3 INX
3 IN	3 KNOBS	3 LAST	3 LOUSEN
3 M-2	3 MARKED	3 MASS	3 MICROSCOPE
3 MINIMUM	3 MODEL	3 MA	3 MORAL
3 U	3 OBSERVED	3 OBSERVING	3 OCCUPIED
3 UN-OFF-STANDBY	3 OPERATORS	3 OPPORTUNITY	3 ORG
3 UNCAM	3 PACK	3 PAIEL	3 PARAGRAPH
3 PARALLAX	3 PARTIES	3 PATTERN	3 PERSHING
3 PICK	3 PLACED	3 POLAR	3 POLES
3 POSITIVE	3 PRESS	3 PRESSURE	3 PROVIDED
3 PULL	3 RECEIVED	3 REFER	3 RENLL
3 REPAIRED	3 REPORTING	3 REQUIRES	3 RESET
3 RETURN	3 ROOT	3 RA	3 SCOPE
3 SELECTED	3 SHORT	3 STG-I	3 SIGNAL
3 SLOWLY	3 SOLUTION	3 SPARE	3 STANDARD
3 STATIONIS	3 STEEL	3 SUBTENDEO	3 SUM
3 SUPPORT	3 TAKEN	3 TAPED	3 THEM
3 THERMOCALITE*	3 THERE	3 TOGETHER	3 TOLD
3 TIME	3 TOP	3 TUNE	3 TUNING
3 T2/116	3 UPON	3 VALUES	3 Y
2	2	2 +24	2
2	2	2 A/SET	2
2	2 ADAPTER	2 ADDING	2 ACCOMPLISH
2	2 AGAIN	2 AGATIST	2 ADDITION
2	2 AROUND	2 ASSISTED	2 AREAS
2	2 BACKGROUND	2 BATTERIES	2 ATTRactions
2	2 BREAKING	2 BURST	2 BFGHS
2	2 CANNOT	2 CANVAS	2 BUT
2	2 CLAMPS	2 CLOSURE	2 CHARACTER
2	2 COMMUNICATIONS	2 COMPARE	2 COLLMN
2	2 CONTROLS	2 COPY	2 COMPUTATIONS
2	2 COUNT	2 COUNTDOWN	2 CORNERS
2	2 DIRECTED	2 DISCUSSED	2 CREEPING
2	2 DIVISIONS	2 D4-60	2 DIVIDING
2	2 ELEMENTS	2 ELEVATION	2 DOING
2	2 EOL	2 ESTABLISHMENT	2 ENOUGH
2	2 EXTENDED	2 EXTRACT	2 ESTIMATED
2	2 FINGER	2 FOOTBALL	2 EYEPIECE
2	2 FULLY	2 F4D	2 FOUND
2	2 GO	2 GRAPH	2 GENERAL
2	2 GS	2 GUIDE	2 GREATER
2	2 HELD	2 HERTZ	2 HANDLES
2	2 IDENTIFY	2 ILLUMINATE	2 HOW
2	2 INCLUDE	2 INFURN	2 ILLUMINATED
2	2 INSUFFICIENT	2 KEEP	2 INSTALL
2	2 LIGHTLY	2 LIGHTS	2 LATERAL
2	2 LOGARITHMS	2 LOGS	2 LIKEWISE
2	2 M-1	2 MADE	2 LONG
2	2 MATCHES	2 MILES	2 MAINTENANCE
2			2 MISTAKE

1 BRAG	1 BRY	1 BUTTUM	1 C-2
1 C-6	1 CAGE	1 CALCULATED	1 CALIBRATION
1 CALLED	1 CAP	1 CAPS	1 CAREFUL
1 CARRY	1 CAUSE	1 CCH	1 CENTERS
1 CATHETERS	1 CHANNELS	1 CHARACTERS	1 CHARGED
1 CHARGE	1 CIRCULAR	1 CLAMPED	1 CLEAN
1 CLOSER	1 CLR	1 COME	1 COMES
1 CLIPJUM	1 COMPARING	1 COMPLETING	1 COMPONENTS
1 CLIPPING	1 CONNECTED	1 CONSISTING	1 CONSISTS
1 CONSTANT	1 CONSULT	1 CONTAINER	1 CONTAINERS
1 CONTAINERS	1 CONTINUED	1 CONVENIENT	1 CONVERGENCE
1 COORDINATE	1 CORD	1 COULD	1 COUNTED
1 CLIPPING	1 COVERED	1 CROSS	1 CROSSED
1 CRUSHAIR	1 CRUSHAIRS	1 CROSSLINES	1 CW
1 CCA	1 DANGER	1 DATE	1 DAY
1 DECLARATE	1 DECREASE	1 DEEPER	1 DEFLECT
1 DEFLECTS	1 DESCRIPTION	1 DESCRIPTIONS	1 DETECTED
1 DETERMINATION	1 DEVIATION	1 DIAGONAL	1 DIAGONALS
1 DIAGNOSIS	1 DIAL	1 DIGITAL	1 DIRECTICNAL
1 DISCARDED	1 DISCREPANCIES	1 DISPLACE	1 DISREGARD
1 DISTOPA	1 DIV	1 DOME-SHAPED	1 DOVETAIL
1 DOWNSLOPE	1 DUE	1 DUST	1 E-1
1 E-4	1 EAR	1 EASILY	1 EASTING
1 EMBEURED	1 EMPLACED	1 ENCIRCLE	1 ENGAGEMENT
1 ENTERED	1 ENTERING	1 EQUALLY	1 EQUIPPED
1 ERASING	1 ERRONEOUS	1 ESTABLISHES	1 ESTABLISHING
1 ETC	1 EVENT	1 EVERY	1 EXCEED
1 EXAGGROS	1 EXCHANGE	1 EXERT	1 EXPRESS
1 EXTENDS	1 EXTERNAL	1 FACE	1 FARMHMET
1 FASTENERS	1 FEATURES	1 FILL	1 FILLED
1 FIRING	1 FIX	1 FLASH-TO-BANG	1 FLASHING
1 FLUSH	1 FOLD	1 FOLLOWED	1 FOOT
1 FILMS	1 FORTH	1 FREQUENCIES	1 FRIENDLY
1 FT	1 FURNISHED	1 FURTHER	1 FUZE
1 G-0	1 GC	1 GENTLY	1 GIVES
1 GIES	1 GOOD	1 GRADIENT-DEGREE	1 GRADUATIONS
1 GRASP	1 GRAUDATION	1 GRU	1 GUSTS
1 GRAD/SYNC	1 H-14	1 H-8	1 HALFWAY
1 HANDLE	1 HANG	1 HARD	1 HE
1 HEARING	1 HJ	1 HIGH-LOW	1 HIM
1 HUB	1 HULDDOWN	1 HORIZONTAL/VERTICAL	1 HOWEVER
1 HUBS	1 HUNDRED	1 IDENTIFIABLE	1 ILLUM
1 IMMEDIATELY	1 INCREASE	1 INDEPENDENTLY	1 INDICATE
1 INDICATED	1 INDIRECT	1 INFORMATION	1 IMPLT
1 INSCRIBED	1 INSERTING	1 INSIDE	1 INTERCONNECT
1 INTERPLATING	1 INTERRUPTION	1 INTERSECT	1 INTERSECTION
1 INTERVARIABLE	1 INTRO	1 INTRODUCTION	1 INV
1 ITEMS	1 JUST	1 KEEPING	1 KIT
1 KNOWING	1 LANCE	1 LARGE	1 LARGER
1 LATCHES	1 LAYS	1 LEAVE	1 LENS

1 LET	1 LINES	1 LISTED	1 LISTEN
1 LOCK	1 LOCKED	1 LOGGED	1 LOSS
1 LIST	1 M-6	1 MAINTAIN	1 MAKE
1 MANDATORY	1 MAP-TERRAIN	1 MARKER	1 MARKERS
1 MARKING	1 MARKS	1 MATCH	1 MAXIMIZED
1 MAXIMUM	1 MC-8	1 MEASURE-TALK	1 MEET
1 MLLT	1 METHODS	1 MIDSCALE	1 MIRRORS
1 MISSION	1 MOUNT	1 MUCH	1 MULTIPLE
1 MULTIPLICATION	1 MULTIPLYING	1 M2-H1	1 M3-M1
1 M4-M2	1 NAME	1 NEEDED	1 NEEDS
1 M4-M2-INTERVISIBLE	1 NORMALLY	1 NORTHING	1 NOTEBOOKS
1 NUMBERED	1 HUT	1 OBJECT	1 OBJECTIVE
1 OBSERVATION/VOIDED	1 OBSERVER'S	1 DIVERSE	1 OBVIOUSLY
1 ODU	1 ON-BATTERY	1 ONE-HALF	1 ONE-POSITION
1 ORTO	1 OPTICAL	1 OPTI	1 ORDERING
1 OVERLAP	1 PARAGRAPHS	1 PARTIALLY	1 PARTS
1 PASSED	1 PEAK	1 PENCILS	1 PERFECTLY
1 PERFORMING	1 PERMITTED	1 PERPENDICULAR	1 PERSONNEL
1 PLA	1 PLACING	1 PLANS	1 POINTINGS
1 PLURALITY	1 POSITIONED	1 POSSESSION	1 PRECEDING
1 PRECISELY	1 PREFIX	1 PREPARE	1 PREPARED
1 PREVIOUSLY	1 PRINTING	1 PRIOR	1 PRISM
1 PRISMS	1 PROBLEM	1 PROCEED	1 PRODUCE
1 PUSHING	1 PUT	1 QUALIFIED	1 RADIO
1 RALS	1 RANGE/1000	1 RAPIDLY	1 REACH
1 REACHED	1 REALIGN	1 RECEIVE	1 RECEPTACLE
1 RECOGNITION	1 RED	1 REDUCE	1 REEL
1 REENTER	1 REENTERING	1 REFINEMENT/SURVEILLANCE	1 REFLECTORS
1 REGISTRATION	1 REEASURE	1 REPEATED	1 REPLACED
1 REPUTATING	1 REQUEST	1 RESECTION	1 RESOLVE
1 RESPECTIVELY	1 RESPONDER'S	1 RESULT	1 RESULTS
1 RETAINING	1 RETAPE	1 REVERSE-SLOPE	1 RF
1 RIGHT-HAND	1 RIVET	1 ROUGHLY	1 ROUNDED
1 RIN	1 R1	1 SEARCH	1 SAMPLES
1 SCALED	1 SCREEN	1 SERIAL	1 SECTION
1 SEEN	1 SELF	1 SHADE	1 SERVES
1 SETTINGS	1 SETTLE	1 SIMPLY	1 SHARP
1 SPONS	1 SIGHTS	1 SMOOTHER	1 SKETCH
1 SLACK	1 SLOPES	1 SOUNDER	1 SNAP
1 SOLDIER	1 SOLELY	1 SOUND	1 SOUNDS
1 SPACE	1 SPACES	1 SPAN	1 SPECIAL
1 SPECIFICATIONS	1 SPECIFIED	1 SPLIT	1 SPLITTING
1 SQUARELY	1 STABLE	1 STAKES	1 STANDBY
1 STEADY	1 STO	1 STOPPED	1 STOPPING
1 STOPS	1 STORAGE	1 STORED	1 STRAIGHT
1 STRESS	1 STRING	1 STRONGER	1 SUBSEQUENT
1 SUBTRACTING	1 SUBTRACTION	1 SUCCEEDING	1 SUCH
1 SUPPLY	1 SURVEYED	1 SWING	1 SYSTEM
1 T	1 T-16	1 TA-312/PT	1 TACK
1 TAG	1 TAGS	1 TAPELENGTH	1 TC

1 TECHNIQUES	1 TELL	1 TEMPERATUR	1 TENSION
1 TERNAIN	1 TESTING	1 THEODOLITE'S	1 THESE
1 THING	1 THINGS	1 THREAD	1 TI
1 TIED	1 TIMES	1 TOOL	1 TOTAL
1 TOUCHING	1 TRACK	1 TRADEMARK	1 TRAINED
1 TRANSPORT	1 TRAVEL	1 TRIPLE	1 TRULPS
1 TS-1	1 TS-2	1 TUBULAR	1 TURNING
1 TYPES	1 T16	1 UNDER	1 UNLESS
1 UNLUCK	1 UNSCREW	1 UP/MARCH	1 UTM
1 V	1 VALID	1 VERIFY	1 VIAL
1 VIALS	1 VICE-VERSA	1 VICINITY	1 VISLALLY
1 VEIN	1 VOIDED	1 VOLUME	1 WARP-UP
1 WARMING	1 WATCH	1 WEST	1 WHATEVER
1 WING	1 WITHSTAND	1 WROD	1 WORK
	1 WOULD	1 WRIST	1 YARDS

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HEADQUARTERS

DATA CONTROL NUMBER

Job Proj No

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

copy WCA

30 SEP 1980

DUF



Y&C SL1

156

PAGE NO 2 TYPE RECORD BYTES

mos 82C-SKILL10

2 ALGEBRAICALLY
3 ALTERNATELY
1 ANTILOG
1 ANTILOGS
4 CAGE
3 COLLINATION
1 DECLINATE
2 DESCRIPTION
3 DX-60
2 DM-60
4 DRANKING
2 ESTIMATE
2 FLASHING
5 INPUT
3 INSTALL
4 LOCKES
1 LOGS
3 MIRRORS
3 ON-BATTERY
4 RESIGN
3 RESOLVE
2 SAMPLE
2 SOLVE
3 UNSCREW
3 UNSTRAP
3 WARNING

MASTER READ	6170
LRECL	32
BLKSIZE	3136

TRANS READ
LRECL
BLKSIZE

711
80
9000

UPDATED RECORDS	1983
LRECL	32
BLKSIZE	3136

[illegible]

1	TELESCOPE	17.2	40.5	28.2	25.1	15.3	4	3.1	6.3
1	THEODOLITE	667.9	40.4	25.3	24.1	17.1	15.7	10.14	6.4
1	TRACKING	28.5	24.3	17.1					
1	TRAVERSE	2.8	6.2	667.2	10.1				
1	TRIANGLE	667.1	6.1	2.13					
1	TRIANGLES	2.4							
1	TRIANGULATION	6.1	667.2						
1	TRUE	3.2							
1	TS-1	25.1							
1	TS-2	25.1							
1	VERTICAL	616.7	6.6	3.1	2.9	17.5	15.5	10.2	28.2 25.2
1	WEST	667.1							
2	A/C	40.1							
2	A/SET	6.2							
2	ADJACENT	2.1							
2	ADJUST	667.2	40.3	15.1	6.3	2.1			
2	ADJUSTING	40.1							
2	ADJUSTMENT	2.1	1.1	59.2	40.2	10.1	9.2	667.3	
2	ADJUSTMENTS	6.1	2.1						
2	AIMING	28.4	24.1	3.3	2.6	1.7	616.11	58.1	32.6
2	ALINE	667.1							
2	ALIGNED	667.1							
2	ALIGNMENT	667.1							
2	APPLIES	616.2	25.1	15.1	6.1	1.1			
2	APPLY	667.2							
2	BASE	667.1	25.1	10.5	6.2	2.2			
2	BREAKING	667.2							
2	CELESTIAL	28.4	24.5	17.1					
2	CHAIN	667.2	2.5						
2	CHARACTER	26.2							
2	CHARACTERS	26.1							
2	COMPUTATION	2.2							
2	COMPUTATIONS	15.1	5.1						
2	COMPUTER	5.2							
2	COMPUTING	2.1							
2	CONSTANT	5.1							
2	CORRECTION	58.2							
2	DESCRIPTIONS	5.1							
2	DIFFERENCE	5.7	3.2						
2	DIFFERENCES	5.6							
2	DIGIT	2.1	40.2	5.1					
2	DIGITAL	667.1							
2	DIGITS	5.3	40.3						
2	DIRECT	15.2	10.1	6.2	667.2	40.6	25.2		
2	DIRECTLY	1.1	28.1	12.1	10.1	5.1	3.1		
2	DISTANCE	667.8	26.2	25.4	10.1	9.2	6.6	5.14	2.4
2	DISTANCES	2.2	25.1	6.2	5.2	3.1	667.1		
2	ELIMINATE	15.1	6.1	25.1	17.1				
2	EMPLACED	3.1							
2	ESTABLISH	58.1	25.2	667.1					

2 OPERATE	17,1	667,1	616,4	40,1	32,1	28,1	2,3	17,1	15,1	6,2
2 OPERATORS	25,3									
2 OPPORTUNITY	2,2	32,1								
2 OPPOSITE	6,1	5,1	2,1	667,1	58,1	32,1	25,1	10,1		
2 OPS	32,3									
2 OPTICAL	10,1									
2 ORIENT	32,3									
2 ORIENTING	1,1	32,4	28,1	3,1	2,2					
2 PARALLAX	17,1	15,1	6,1							
2 PARTIAL	667,4	5,3								
2 PERFORM	25,1	2,2								
2 PERFORMED	667,1	28,1	17,1	10,1						
2 PERFORMING	667,1									
2 PLOT	2,2									
2 PLUNGE	40,1									
2 POINT/SET	6,2									
2 POLAR	2,2									
2 POLARIS	3,8									
2 POLARIS-KOCHAB	5,1	3,1								
2 POSITIVE	26,3									
2 PRESS	40,2									
2 RALS	2,1									
2 RANGE	6,7	3,3	2,4	58,6	28,1	25,1	15,1	12,7	10,4	
2 RATIO	3,1	2,3								
2 READ	28,1	25,1	17,1	6,4	40,1	32,1				
2 READING	5,1	2,3	40,11	28,2	25,5	17,5	15,5	10,1	6,8	
2 READINGS	5,6	25,8	17,1	15,3	6,5	667,2	616,3	40,7	32,1	
2 REAR	6,3	2,1	667,11	616,3	25,3	15,3	10,1			
2 REMARKS	5,2									
2 REMEASURE	25,1									
2 RESPONDER	25,15									
2 RESPONDER'S	25,1									
2 RESULT	58,1									
2 RESULTS	58,1									
2 RETAPE	667,1									
2 RETICLE	2,1	58,1	40,4	17,1						
2 ROOT	26,3									
2 ROTATE	667,1	40,3	25,4	6,3						
2 SERVO	40,2									
2 SET	1,1	667,2	616,6	40,1	32,6	28,4	26,13	25,20	10,5	17,3
2 SETTING	15,4	13,1	6,16							
2 SETTINGS	667,2	28,1	25,3	24,1	17,1	15,2	10,1	6,3		
2 SIAGL	6,1									
2 SIDE	667,1	40,3	6,1							
2 SKETCHES	2,5	32,1	25,1	3,1						
2 SLIDE	5,2									
2 SLOPE	26,1									
2 SOLAR	5,6	667,1	25,1							
	17,2									

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POS WORD LIST BY PAGE .

[illegible]

WDS WORD LIST BY PAGE

3	SCALES	40.1	3.1	32.1	28.2	17.1	15.5	6.1
3	SCHEME	2.2						
3	SCOPE	28.1	24.1	6.1				
3	SEOME	17.1	25.5	5.1	6.1			
3	SECTOR	667.1	40.1	26.1	25.1			
3	SEQUENCE	2.2	667.4					
3	SIG	25.6						
3	SIGHT	6.1	3.3	667.1	32.6	28.3	15.1	
3	SIGHTS	28.1						
3	SIGNAL	25.2	6.1					
3	SLACK	667.1						
3	SLCPES	12.1						
3	SMALLER	3.1						
3	SPECIFIC	5.1	2.1					
3	SPECIFICATIONS	2.1						
3	SPECIFIED	667.1						
3	STANDARD	25.1	10.1	6.1				
3	STEP	667.1	2.4					
3	STEPS	616.1	26.2	2.22				
3	STRAIGHT	5.1						
3	SURVEYED	32.1						
3	SURVEYING	667.4	25.1	6.1				
3	SURVEYORS	25.2						
3	SWITCH	26.4	25.28	6.4	667.5	40.5		
3	SWITCHES	25.1	667.1					
3	TAG	12.1						
3	TAGS	12.1						
3	TASK	616.2	25.3	6.1	1.1	15.1		
3	TESTING	32.1						
3	THEO	40.2						
3	TIME	58.1	28.2	25.3	10.2	6.1	1.1	667.2
3	TIMES	6.1						
3	TRAVEL	19.1						
3	TURN	40.1	25.1	1.1				
3	TURNING	25.1						
3	UNCAGE	40.2						
3	UNIVERSAL	40.2						
3	UTH	26.1						
3	VERNIER	6.2	40.5					
3	VIAL	667.1						
3	VIALS	1.1						
3	WING	1.1						
4	ABLE	667.2	24.1	19.2	13.2			
4	ACCOMPLISH	25.1						
4	ADAPTOR	26.1						
4	ADD	58.1	40.3	26.1	5.2			
4	ADDING	40.1	3.1					
4	ADDITION	26.1						
4	ADDITIONAL	6.1	667.1	58.1				
4	ADJOINING	5.1						

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MOS WORD LIST BY PAGE

4	PROCEDE	24,1	10,1	1,1	67,5	616,1			
4	PROCEDE	28,1	17,1	667,3	40,1				
4	PROPER	2,1	667,2	25,3					
4	PROVIDE	24,1	10,1	1,1					
4	PROVIDED	2,2	25,1						
4	QUALIFIED	667,1							
4	RECEPTACLE	667,1							
4	REFLECTOR	6,4							
4	REFLECTORS	6,1							
4	REPAIR	9,1							
4	REPAIRED	9,3							
4	RF	25,1							
4	ROD	12,2							
4	ROTATION	10,1	1,1						
4	SECOND	32,3	40,1	616,1	28,6	26,4	25,3	17,1	2,2
4	SECONDS	6,1	2,5	667,1					
4	SECTION	9,1							
4	SECURE	10,1	1,1	40,1	667,5				
4	SELECT	24,1	667,1	40,5					
4	SELECTED	616,1	25,1	6,1					
4	SERIAL	5,1							
4	SIGN	616,1	32,1	2,1					
4	SOLDER	9,2							
4	SOUND	667,1							
4	SPARE	9,3							
4	STEEL	667,2	9,1						
4	TABLE	3,4							
4	TEST	667,2	40,4						
4	TH	8,1	6,1	5,1	13,2	10,1	667,3	25,1	19,1
4	TOE	25,3							
4	TOOL	40,1							
4	TRIPOD	12,3	10,14	1,16	25,8	40,5	667,7		
4	TURNED	32,2							
4	UNLOCK	6,1							
4	VISUALLY	6,1							
4	WARM-UP	25,1							
4	WITNESS	12,2							
4	WOODEN	12,2							
5	ALLOTTING	10,1							
5	ANNOUNCE	15,4	6,3	4,1	28,1	25,3	24,2	17,3	
5	ANNOUNCED	616,2	40,1	32,1	28,3	25,1	17,2	15,1	6,2 667,2
5	ANNOUNCES	667,1	28,2						
5	APPEAR	40,1							
5	APPEARS	40,3							
5	APPENDIX	26,1	5,1	2,1					
5	ARTILLERY	2,25	50,2	30,1					
5	AVAILABLE	616,1							
5	BACK	1,1	616,3	40,1	32,1	25,5	17,1	15,1	6,3 2,2 667,2
5	BACKGROUND	25,2							
5	BATTERIES	26,2							

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HEADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

DATA CONTROL NUMBER

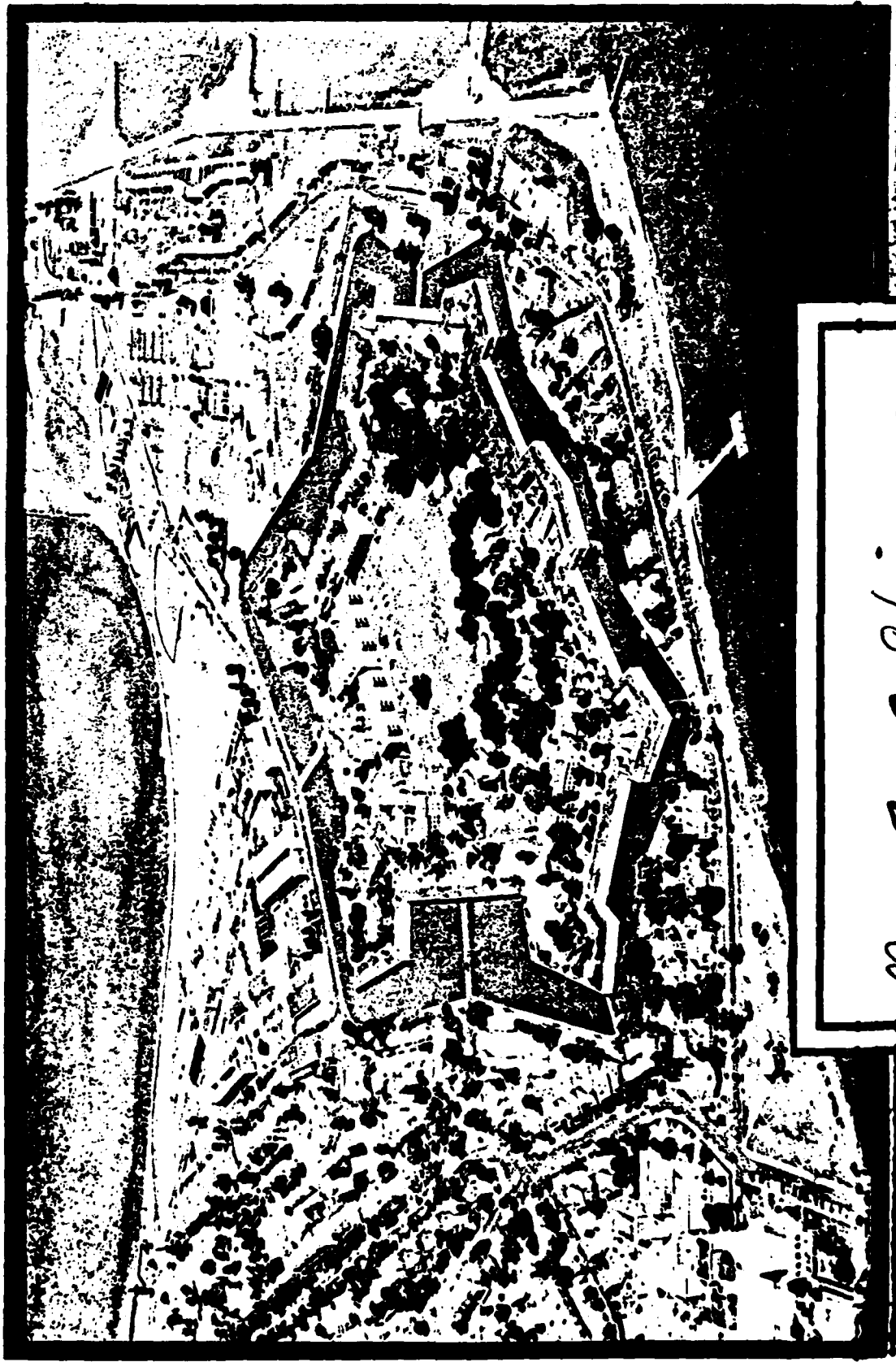
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Mos-82-C Skill 2

170

COUNT1 WORD1

COUNT2 WORD2

COUNT3 WORD3

COUNT4 WORD4

DATE 80231 1452 PAGE 1

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1 FOUND	1 FOURTHORDER	26 FROM	
3 FUNCTION	2 FURNISHED	3 G	
8 GEOGRAPHIC	1 GO	4 GRAPH	
53 GRID	2 GUIDE	3 H	
4 HAND	3 HANDBOOK	3 HAS	
5 HAVE	1 HEIGHTS	1 HEMISPHERE	
1 HERE	4 HORIZONTALLY	7 FOUR-ANGLE	
2 HOWEVER	1 IDENTIFICATION	12 IF	
9 II	75 IN	5 INC.	
3 INCLUDE	7 INSTRUCTIONS	1 INSTRUMENT	
4 INSTRUMENTS	3 INTERNATIONAL	5 INTERPOLATIONS	
1 INTERSECTION	4 INFO	1 INVOLVED	
29 IS	1 IV	2 JIPSCN	
12 JUS	22 KNOWN	5 LARGER	
2 LARGEST	4 LATITUDE	4 LEAST	
6 LEFT	3 LEG	5 LENGTH	
1 LESS	21 LESSON	1 LINES	
4 LISTED	12 LUG	20 LOGARITHMS	
2 LONGEST	4 LONGITUDE	2 MADE	
8 MAIN	1 MAKE	10 PAR	
3 MARGINAL	1 MARK	5 PEAN	
2 MEANED	1 MEASURE	3 PERIDIAN	
7 METERS	12 METERS	8 PILS	
5 MINUS	10 MINUTES	4 PCD	
5 MORE	7 MOVE	8 PLST	
3 M	10 MCM	14 NEAREST	
5 NEA	8 NORTHING	5 ACTC	
6 NUMBER	1 NUMBERS	5 OBSERVATION	
2 OBSERVATIONS	79 OF	10 CNE	
1 ONLY	2 OPERATIONS	18 CR	
5 ON DEP	2 UNJOIN	17 CUT	
1 OVERLAPPING	5 OWNER'S	14 FAP	
4 PAPER	10 PARA	7 FENCIL	
2 PER	6 PERFORM	1 PERFORMING	
8 PG	2 PGS	25 PLACE	
1 PLACES	4 PLUS	2 POINTS	
2 POSITION	10 PRI	2 PRECEDURE	
1 PROCEDURES	10 PROPER	4 PROVIDED	
10 JUL	1 RADIAL	1 RE-ENTER	
3 REACHED	1 REAR	2 RECMPUTE	
5 RECOMPUTED	7 RECORD	1 REDUCED	
10 REFERENCES	2 REJECT	16 REPEAT	
2 REFUTED	1 RESERVE	7 RIGHT	
2 ROUND	2 ROUNDED	2 S	
4 SAME	14 SCA	2 SCP	
4 SCRATCH	10 SEC	1 SECONDS	
33 SEE	6 SET	5 SEVEN	
4 SIC	7 SIDE	6 SIGNS	
1 SINCE	1 SINE	4 SMALLER	
1 SOME	1 SPACE	1 SPECIFICATIONS	

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MOS WORD LISTING/ASCENDING SEQUENCE

COUNT1 WORD1

COUNT2 WORD2

COUNT3 WORD3

COUNT4 WORD4

21 SPHEROID	3 SPHEROID	15 SK-56	10 STANDARDS
1 START	1 STARTER	11 STARTING	17 STATION
2 STATIONS	4 STATIONS	8 STEP	14 STEPS
1 STORE	2 SUBTRACT	1 SUBTRACTED	4 SUP
3 SUN	24 SURVEY	20 SUPERVISOR	3 SWINGING
10 TAP	4 TABLE	25 TABLES	1 TAKES
25 TEC	5 TECHNICAL	5 TEAS	11 THIN
6 THAT	302 TPE	2 THEN	1 THFE
6 THIS	1 THOSE	5 THREE	34 THROUGH
3 THPU	1 TIME	48 TH	4 TNC
80 TO	1 TOGETHER	2 TOP	10 TOTAL
6 TRANSFORM	4 TRANSFORMATION	2 TRANSFORMED	8 TRANSFORMING
12 TRAVERSE	5 TRIG	1 TRUE	8 TS
2 TSI	5 TWO	4 UNTIL	2 UPPER
14 USE	4 USED	21 USING	26 LTM
33 VALUE	7 VALUES	1 VARIES	1 VI
2 VOLUME	1 VOLUME	1 WAS	2 WEST
6 WHEN	1 WHERE	2 WHICH	26 WILL
15 WITH	8 WITHIN	10 WITHOUT	2 WORKING
4 X	32 YOU	5 YOUR	28 ZONE
			3 ZONES

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DATE 80231 1453 PAC

COUNT4 WORD4

FREQUENCY
WORDS

COUNT2 WORD2

COUNT1 WORD1

COUNT3 WORD3

COUNT5 WORD5

COUNT6 WORD6

COUNT7 WORD7

302 THE	106 AND	80 TO	79 CF
75 IN	66 FIGURE	56 A	53 GRID
45 COORDINATES	48 TM	42 FCR	40 AZIMUTH
35 JA	35 FCRM	34 THROUGH	33 SEE
33 VALUE	32 BLOCK	32 YOU	25 CALCULATOR
29 IS	29 PCINT	28 42	28 BE
28 ZONE	27 DATA	27 CN	26 CC PRECTION
26 FROM	26 HEIGHT	26 UTM	26 WILL
25 PLACE	25 TABLES	25 TEC	24 SURVEY
22 KNOWN	21 -	21 DETERMINE	21 LESSON
21 SPHERIOD	21 USING	20 B	20 COMPUTE
20 LOGARITHMS	20 SURVEYOR	19 HAND-HELD	18 CR
17 BLOCKS	17 SIGN	17 STATION	16 APCVE
16 COMMON	16 REPEAT	15 AN	15 ASSUMED
15 COMPUTED	15 MANUAL	15 SR-56	15 WITH
14 BY	14 EACH	14 END	14 GIVEN
14 NEAREST	14 PAP	14 SCA	14 STEPS
13 CRITICAL	13 DIFFERENCE	13 FM	13 TRAVERSE
12 ANGLE	12 ARTILLERY	12 C	12 E
12 FIELD	12 IF	12 JUS	12 LCG
12 METERS	11	11 ENTER	11 ERROR
11 PERFORMANCE	11 STARTING	11 THAN	11 USF
10 -	10 ADJOINING	10 CHAP	10 CONDITIONS
10 ENV	10 FIR	10 INP	10 INT
10 LAS	10 MAR	10 MEASURES	10 MINUTES
10 MAX	10 ONE	10 CUT	10 PARA
10 PRI	10 PROPER	10 QUA	10 REFERENCES
10 SEC	10 STANDARDS	10 TAB	10 TOTAL
10 WITHOUT	9 -J	9 AT	9 BETWEEN
9 CORRECTED	9 EXTRACT	9 II	9 PROCEDURAL
8 APPLY	8 EASTING	8 GEOGRAPHIC	8 PAIN
8 MIL	8 MILS	8 MUST	8 NORTHING
8 PG	8 SCHEME	8 STEP	8 TRANSFORMING
8 TS	8 WITHIN	7 ALL	7 AZIMUTHS
7 D	7 FOLLOW	7 INSTRUCTIONS	7 METER
7 PENCIL	7 RECORD	7 RIGHT	7 SICE
7 VALUES	6 ANGLES	6 ANTILOG	6 ANY
6 CONVERSION	6 FIRST	6 LEFT	6 LOGARITHMIC
6 NUMBER	6 PERFORM	6 REMAINDER	6 SFT
6 SIGNS	6 THAT	6 THIS	6 TRANSFORM
6 WHEN	5 ARE	5 BASIC	5 BEING
5 CLARKE	5 COMPUTATIONS	5 COPYRIGHT	5 DISTANCE
5 FUNCTIONS	5 HANDBOOK	5 HAVE	5 I
5 INC	5 INTERPOLATIONS	5 LARGER	5 LENGTH
5 MEAN	5 MINJS	5 MORE	5 NEW
5 NOTE	5 OBSERVATION	5 ORDER	5 CANNER'S
5 RECOMPUTED	5 SEVEN	5 TECHNICAL	5 TEXAS
5 THREE	5 TRIG	5 TWO	5 YOUR
4 *	4 ALSO	4 AMOUNT	4 APPLIED
4 CHAIRS	4 CLOSING	4 CONTROL	4 CONVERT

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WORLD FREEDOM LIBERTY

COUNT 1 WORD!

COUNT 2 WCA02

COUNT3 WCARD3

COUNT 4 11104

4	DESIGNATION	4	F	4	FORMS	4	GRAPH
4	MAID	4	INSTRUMENT	4	INTG	4	LATITUDE
4	LIST	4	LISTED	4	LCNGITUDE	4	PCD
4	PAPER	4	PARTY	4	PLUS	4	PROVIDED
4	RECORDING	4	SAME	4	SCRATCH	4	SECOND
4	SETS	4	SIC	4	SMALLER	4	STATIONS
4	SUM	4	TABLE	4	TNC	4	TRANSFORMATION
4	UNTIL	4	USED	4	X	4	
3	+	3	-	3	ADD	3	ADJUSTMENT
3	AREA	3	AS	3	ASTRONOMIC	3	BESSFL
3	CENTRAL	3	CORRECT	3	CORRECTIONS	3	DISPLAYED
3	EQUALLY	3	EVEREST	3	EXAMPLE	3	FUNCTION
3	INCLUDE	3	H	3	HAS	3	MOUR-ANGLE
3	MARGINAL	3	INTERNATIONAL	3	LEG	3	LOWER
3	SLIDING	3	MERIDIAN	3	N	3	REACHED
3	THRU	3	SPHEROID	3	SUN	3	SWINGING
2	AFFIXED	2	ZONES	2	+	2	ADJUSTED
2	AZ	2	ACCURACY	2	ANSWER	2	ASSIST
2	BNSCP	2	ALGEBRAICALLY	2	BLANK	2	BA
2	COORDINATE	2	BEEN	2	CCNFORM	2	CCASIDERED
2	DIFFERENCES	2	COMPLETED	2	CURRENT	2	DEGREES
2	DCNE	2	DIVARTY	2	DIVIDE	2	CH
2	EXACTLY	2	EAST	2	ECHOLON	2	CIVISION
2	FINAL	2	EXTRACTED	2	EXTRACTING	2	ESTABLISHED
2	IN/EVER	2	FORWARD	2	FURNISHED	2	FIFTH-ORDER
2	MADE	2	LARGEST	2	LINE	2	GUIDE
2	O	2	MEANED	2	PK	2	LONGEST
2	PER	2	OBSERVATIONS	2	OPERATIONS	2	MCVE
2	POSITION	2	PGS	2	PLA	2	PCINTS
2	REJECT	2	PROCEDURE	2	RATE	2	RECOMPUTE
2	S	2	REQUIRED	2	ROUND	2	ROUNDED
2	SUBTRACT	2	SCP	2	SPANS	2	STATION'S
2	UPPER	2	THEN	2	TOP	2	TSI
2	WORKING	2	VOLUME	2	WEST	2	W-ICH
1		1		1		1	
1	+12	1	+19	1	+196	1	+2
1	+23	1		1	NOTE	1	-HELO
1	-112	1	-2	1	-3	1	ACCUMULATION
1	ACROSS	1	ADDITIONAL	1	ADJUSTMENTS	1	AGREE
1	AND/OR	1	ASMSRS	1	APPROPRIATE	1	ARMY
1	ARTY	1	AVERAGE	1	BASED	1	BEARING
1	BCKES	1	CAN	1	CLARK	1	CLEAR
1	CLOSED	1	CLOSURE	1	COLUMNS	1	CONNECTING
1	CONTINUE	1	CONVERTED	1	CORRESPONDING	1	CCSINE
1	DE	1	DE	1	DECIMAL	1	DESIGNATED
1	DETERMINED	1	DN	1	DN/-0	1	CIFER
1	DIRECTED	1	DIRECTLY	1	DISCUSSED	1	CIV
1	DIVIDING	1	DN	1	DCWN	1	EC

COUNT4 WORD4

1 ECELEON	1 EITHER	1 EPHEMERIS	1 EQUAL
1 EXCEPTION	1 EXCLUDING	1 FALSE	1 FILL
1 FIND	1 FINDING	1 FERMING	1 FLIND
1 FOURTH-ORDER	1 FOURTHORDER	4 GO	1 GRID-MANUAL
1 HEIGHTS	1 HEMISPHERE	1 PERE	1 HIGHER
1 HORIZONTAL	1 IDENTIFICATION	1 III	1 INSTRUMENT
1 INTERSECTION	1 INTERSECTS	1 INVOLVED	1 ITS
1 IV	1 JIMPSON	1 KEY	1 LEGS
1 LESS	1 LINES	1 MAKE	1 MARK
1 MATHEMATICAL	1 MEASURE	1 MULTIPLY	1 NC
1 MCT	1 NUMBERS	1 ONLY	1 CPPOSITE
2 OTHER	1 OVERLAPPING	1 PAGE	1 PERFCRYPING
1 PLACES	1 PROCEDURES	1 PROPCRTIONAL	1 RADIAL
2 RE-ENGINE	1 REAR	1 RECALL	1 REFUGED
1 RESERVE	1 RETURN	1 ROY	1 SECONDS
1 SINCE	1 SINE	1 SCME	1 SPACE
2 SPECIFICATIONS	1 START	1 STARTER	1 STCRE
1 SUBTRACTED	1 TAKES	1 THESE	1 THOSE
1 TIME	2 TOGETHER	1 TRANSFORMED	1 TRUE
1 VARIES	1 VI	1 VOLUME	1 WAS
			1 WHERE

HEADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

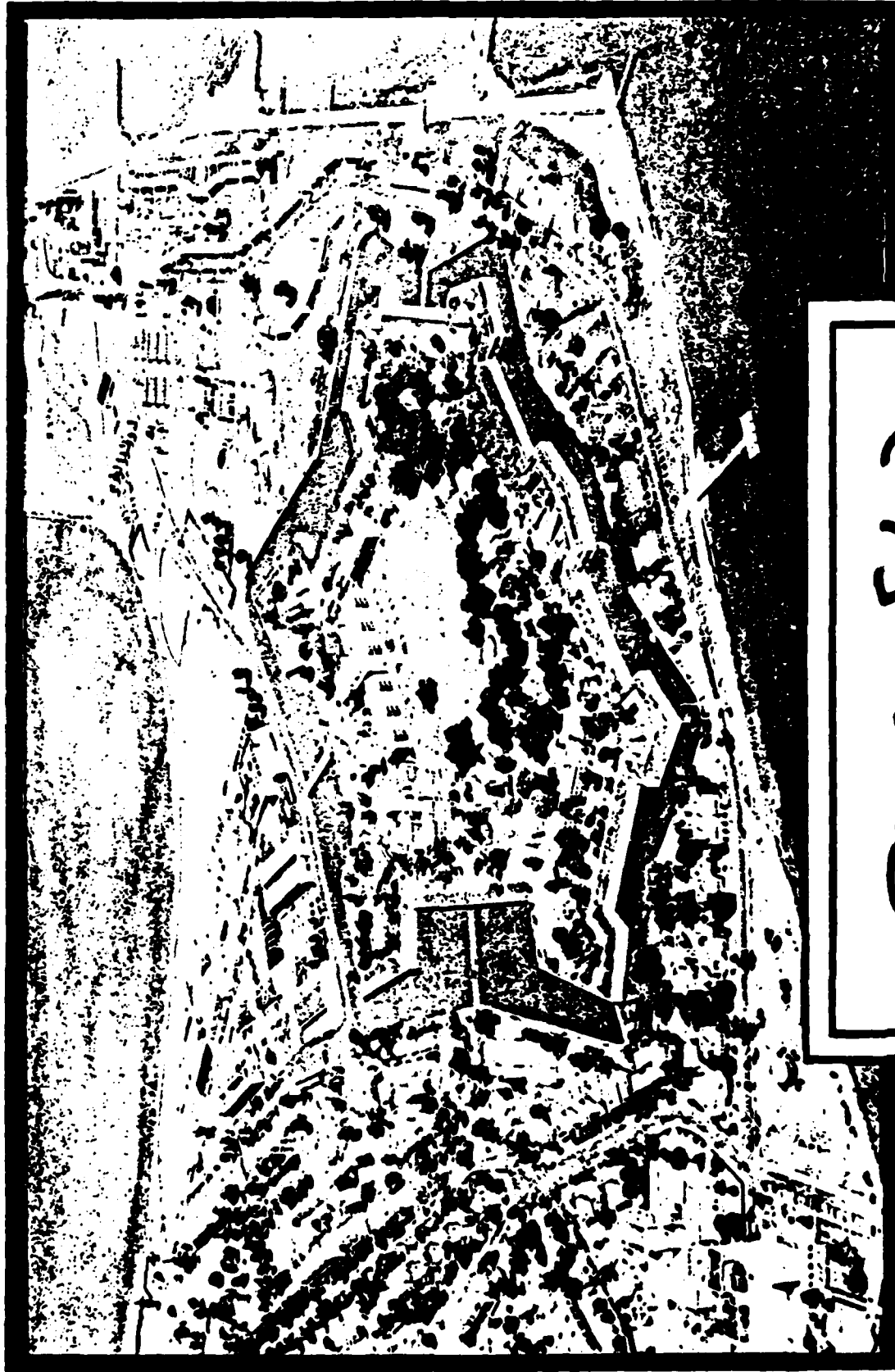
DATA CONTROL NUMBER

Job No/Proj No

WCA

30 SEP 1980

DCI



82C 5L2

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MOS 82C-SKILL 2

SEQUENTIAL C I MANAGER

PAGE NO 2 TYPE 3D BYTES

- 5 KEY
- 5 OVERLAPING
- 4 PERFORM
- 2 RECOMPUTE
- 3 ROUND
- 1 SCP
- 2 SUBTRACT
- 2 SWINGING
- 1 TSI

MASTER READ 1277
LRECL 32
BLKSIZE 3136

TRANS READ 217
LRECL 80
BLKSIZE 8000

UPDATED RECORDS 302
LRECL 32
BLKSIZE 3136

TRAN 80
TRAN 80
TRAN 80
TRAN 80
TRAN 80
TRAN 80
TRAN 80
TRAN 80

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1	ALGEBRAICALLY	231.1		
1	ANGLE	231.12		
1	ANGLES	231.6		
1	ANTIDOG	231.2		
1	ASTRONOMIC	300.3		
1	AZ	231.2		
1	AZIMUTH	241.6	231.27	300.6
1	AZIMUTHS	300.4	231.3	
1	BEARING	231.1		
1	BNSCP	231.1		
1	CALCULATOR	300.1	241.8	231.19 1.1
1	CLOSED	300.1		
1	CLOSING	300.1	231.3	
1	CLOSURE	231.1		
1	COMMON	231.15		
1	COMPLETED	300.1	231.1	
1	COMPUTATIONS	300.1	231.4	
1	COMPUTE	241.2	231.3	300.5
1	COMPUTED	241.1	231.12	
1	CONDITIONS	1.1	300.1	241.4 231.4
1	CONTROL	231.4		
1	COORDINATE	231.2		
1	COORDINATES	1.2	241.16	231.29
1	CORRECT	241.1	231.1	
1	COSINE	231.1		
1	DE	231.1		
1	DM	231.1		
1	DISTANCE	231.5		
1	EASTING	241.1	231.5	
1	EPHEMERIS	300.1		
1	EXTRACTED	241.2		
1	GEOGRAPHIC	241.4	231.2	1.1
1	GRID	241.29	231.19	1.1
1	HEIGHT	231.24		
1	HEIGHTS	231.1		
1	HEMISPHERE	241.1		
1	HORIZONTALLY	231.1		
1	INTERSECTION	231.1		
1	INTERSECTS	231.1		
1	LATITUDE	231.4		
1	LOG	231.5		
1	LOGARITHMIC	231.5	230.1	
1	LOGARITHMS	231.23		
1	LONGITUDE	241.1	231.3	
1	NORTHING	241.1	231.5	
1	SINE	231.1		
1	SLIDING	231.2		
1	SPHEROID	241.3		
1	STATION	241.5	231.9	
1	STATIONS	231.4		

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MDS WORD LIST BY PAGE

1	SURVEY	300.2	231.12	2.10
1	TRAVERSE	300.3	231.10	
1	TRIG	231.5		
1	TRUE	300.1		
2	ACCURACY	300.2		
2	APPLIED	231.4		
2	APPLY	231.6		
2	ASSUMED	231.12		
2	BASIC	231.5		
2	CONNECTING	231.1		
2	CONVERT	231.3		
2	CONVERTED	231.1		
2	CORRECTED	231.9		
2	CORRESPONDING	241.1		
2	CRITICAL	231.13		
2	DECIMAL	231.1		
2	DESIGNATED	231.1		
2	DESIGNATION	231.4		
2	DETERMINE	231.6	300.2	
2	DETERMINED	231.1		
2	DIFFERENCE	231.11		
2	DIFFERENCES	231.2		
2	DIRECTED	300.1		
2	DIRECTLY	231.1		
2	DISPLAYED	231.3		
2	DIVIDE	231.1		
2	DIVIDING	231.1		
2	EQUAL	231.1		
2	EQUALLY	231.3		
2	ERROR	300.1	241.4	231.6
2	ESTABLISHED	231.2		
2	EXACTLY	231.2		
2	EXAMPLE	231.1		
2	EXTRACT	231.4		
2	EXTRACTING	231.2		
2	FINAL	300.2		
2	FORMS	231.4		
2	FORWARD	231.2		
2	FUNCTION	231.3		
2	FUNCTIONS	231.5		
2	GIVEN	1.1	300.1	241.7
2	GRAPH	231.4	231.5	
2	HOUR-ANGLE	300.2	241.1	
2	IDENTIFICATION	231.1		
2	INSTRUMENT	241.1		
2	INSTRUMENTS	241.3	300.1	
2	MEAN	300.4		
2	MEANED	300.2		
2	MERIDIAN	241.1	231.2	
2	NIL	300.4	241.1	231.3

2	MILS	231.0		
2	MK	231.1		
2	MULTIPLY	231.1		
2	RADIAL	231.1		
2	REAR	231.1		
2	RECOMPUTED	231.3		
2	RECORD	300.1	241.1	
2	RECORDING	241.4		
2	REMAINDER	231.5		
2	STARTING	231.7		
2	SUBTRACTED	231.1		
2	SUM	231.2		
2	SUN	300.2	241.1	
2	TAB	1.1	300.1	241.4 231.4
2	TAKES	241.1		
2	TIME	231.1		
2	UPPER	241.2		
2	UTM	241.22231.3		1.1
2	VALUE	231.29241.4		
2	VALUES	241.2 231.5		
2	WEST	241.2		
2	ZONE	241.23231.8		
2	ZONES	241.1 231.2		
3	ADJOINING	231.3 241.7		
3	ADJUST	300.1 231.1		
3	ADJUSTED	231.2		
3	ADJUSTMENT	300.1 231.2		
3	ADJUSTMENTS	231.1		
3	AREA	241.1 231.2		
3	ASSIST	231.2		
3	AVERAGE	231.1		
3	BETWEEN	231.9		
3	BLOCK	300.1 231.31		
3	BLCKS	300.1 241.4	231.12	
3	CONVERSION	241.3 231.2	1.1	
3	CORRECTION	231.19		
3	CORRECTIONS	231.2		
3	DEGREES	231.2		
3	DIFFER	231.1		
3	FIFTH-ORDER	300.2		
3	FIGURE	231.23300.3	241.9	
3	FOURTH-ORDER	300.1		
3	HAND-HELD	300.1 241.2	231.12	
3	INSTRUCTIONS	231.7		
3	MEASURE	231.1		
3	MEASURES	231.5 300.1	241.4	
3	METER	241.2 231.5		
3	METERS	231.11		
3	MINUS	231.5		
3	MINUTES	300.1 241.4	231.5	

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3	PROCEDURE	300,1	241,4	231,4
3	PROCEDURE	231,2		
3	PROCEDURE	231,1		
3	REDUCED	231,1		
3	REPEAT	300,1	231,2	
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3	SCHEME	231,8		
3	STC	231,3	300,1	
3	STANDARDS	300,1	241,4	231,5
3	STEP	241,3	300,5	
3	STEPS	300,2	241,12	
3	SURVEYOR	231,20		
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3	TEC	231,24		
3	TECHNICAL	241,3	231,2	
3	TOTAL	231,8		
3	TRANSFORM	241,2		
3	TRANSFORMATION	241,4		
4	ACCUMULATION	231,1		
4	ADDITIONAL	231,1		
4	AGREE	231,1		
4	AMOUNT	231,4		
4	LARGEST	231,2		
4	LEFT	241,2	231,4	
4	LENGTH	231,5		
4	LINE	231,2		
4	LINES	231,1		
4	LONGEST	231,2		
4	MARK	300,1		
4	MATHEMATICAL	230,1		
4	OPPOSITE	231,1		
4	PARTY	231,4	231,6	300,1
4	PERFORMANCE	241,4		
4	PERFORMING	241,1		
4	POSITION	300,2	300,1	241,5
4	PROPER	231,4		
4	RECALL	231,1		
4	REFERENCES	300,1	241,6	231,3
4	REQUIRED	231,2		
4	SECOND	231,4		
4	SECONDS	231,1		
4	SET	300,6		
4	SETS	300,4		
4	VARIABLES	300,1		
4	VOLUME	231,1		
5	BOXES	241,1		
5	LEG	231,3		
5	LEGS	231,1		

5 MANUAL	300.1	241.3	231.7
5 OPERATIONS	231.2		
5 ORDER	231.3	230.1	300.1
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5 POINTS	231.2		
5 SIDE	241.4	231.3	
5 SMALLER	231.4		
5 SPECIFICATIONS	300.1		

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APPENDIX 8

ENGLISH LANGUAGE STRUCTURES AND LEXICON

The following list is included as an addition to the structural and lexical list. These structures and lexical items are very basic.
(See Section II for discussion.)

LIST OF LEXICAL AND STRUCTURAL ITEMS FOR ENGLISH LANGUAGE STRUCTURES

Sentences:

- | | |
|------------------|-------------------------|
| A. Declarative | statement |
| B. Interrogative | question |
| | 1. wh- questions |
| | 2. tag questions |
| | 3. yes/no questions |
| C. Imperative | command, polite request |
| D. Exclamatory | exclamation |

Sentence Complexity:

- | | |
|---------------------|---|
| A. Simple | one full subject and predicate |
| B. Compound | two or more independent clauses joined by: |
| | 1. punctuation |
| | 2. punctuation and conjunctive adverb |
| | 3. coordinate conjunction |
| C. Complex | one or more dependent clauses and an independent clause |
| D. Compound-Complex | two or more independent clauses and one or more dependent clauses |

Verbs:

- | | |
|----------------------------|---|
| A. Concord | subject-verb agreement |
| B. Transitive | takes an object |
| C. Intransitive | doesn't take an object |
| D. Copula | to be |
| E. Linking | connectors |
| F. Auxiliaries of tense | will, do, did |
| G. Auxiliaries of modality | should, ought to, must to, have to, have got to, able to, can, may, might, could, would |
| H. Tense | present, past |
| I. Aspect | perfect, progressive |

Verbal Forms:

- | | |
|-----------------------|---------------|
| A. Present Participle | active voice |
| B. Past Participle | passive voice |

Voice:

- | | |
|------------|----------------------------|
| A. Active | subject does action |
| B. Passive | subject does not do action |
| | 1. agent expressed |
| | 2. agent not expressed |

Nouns:

A. Singular	man, pen
B. Plural	men, pens
C. Count	chairs
D. Mass	flour
E. Possessive	soldier's
F. Collective	fish

Adjectives:

A. Predicative	The tank is green.
B. Attributive	The green tank is moving.
C. Degrees of comparison	
1. regular	big, bigger
2. irregular	worse, worst
D. Ordinal/Cardinal Numbers	first, one

Adverbs:

A. Time/Frequency	immediately, today, ago
B. Place/Position	here, there, everywhere
C. Manner	maybe, possibly
D. Negative	no, never
E. Comparison of	nearest, harder
F. Degree	thoroughly, completely

Articles:

A. Definite	a, the
B. Indefinite	any, some

Pronouns:

A. Personal	you
B. Demonstrative	that
C. Indefinite	anybody, both, each
D. Reflexive	himself, yourself
E. Cases of	I, me, my, mine
F. Relative	who, whom, whose
G. Interrogative	who, which, what

Conjunctions:

A. Coordinating	and, but, or, nor
B. Subordinating	because, if, as, that, after
C. Correlative	either, or
D. Conjunctive adverb	therefore, furthermore

Prepositions:

A. Simple

- | | |
|----------------------------------|------------|
| 1. place | on, in |
| 2. time | in, at, on |
| 3. direction/motion | to |
| 4. manner/agent/
instrument | by, with |
| 5. measurement/
number amount | of |

B. Compound:

according to, because of, by means

Vocabulary:

words from 1100 through 2400 -
Elementary and Intermediate Phase of General
English materials

Special Expressions/Idioms

"knock it off" "can it, buddy"

Verb Combinations

two word verbs